

## Supportinf Information

# CIAT with simultaneous epimerization at two stereocenters. Synthesis of substituted $\beta$ -methyl- $\alpha$ -homophenylalanine.

By

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**Abstract.** Diastereoselective *aza*-Michael additions of phenylethylamine to 3-arylbutoenoic acids are reported. Efficient control over two new stereogenic centers on Michael acceptor has been possible *via* crystallization-induced asymmetric transformation (CIAT). A convenient two-step synthesis of *anti*- $\beta$ -methylhomophenylalanines is also described.

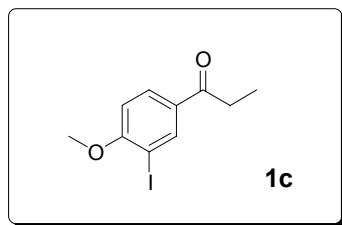
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Fax: +421 2 52968560; Tel:+421 2 52968560; E-mail: [dusan.berkes@stuba.sk](mailto:dusan.berkes@stuba.sk)

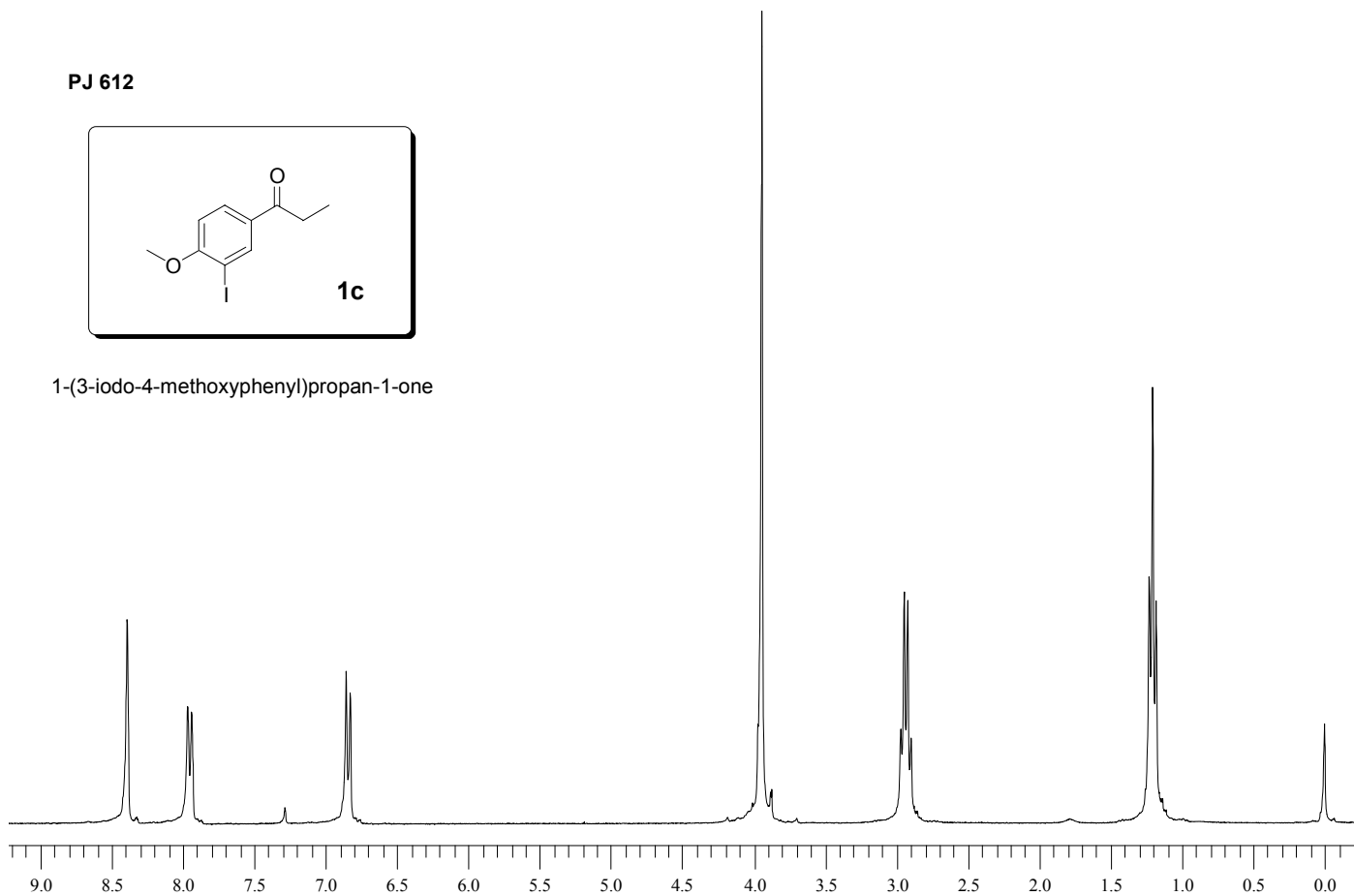
<sup>b</sup> Laboratoire de Chimie, URCOM, Faculté des Sciences et Techniques de l'Université du Havre, 25, rue Philippe Lebon, B.P. : 540, F-76058 Le Havre Cedex, France.

Fax: +33 02-32-74-43-91; Tel:+33 02-32-74-44-03; E-mail: [adam.daich@univ-lehavre.fr](mailto:adam.daich@univ-lehavre.fr)

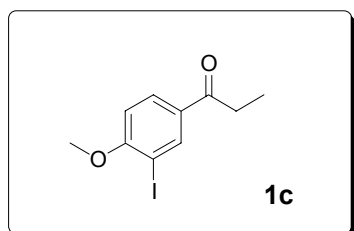
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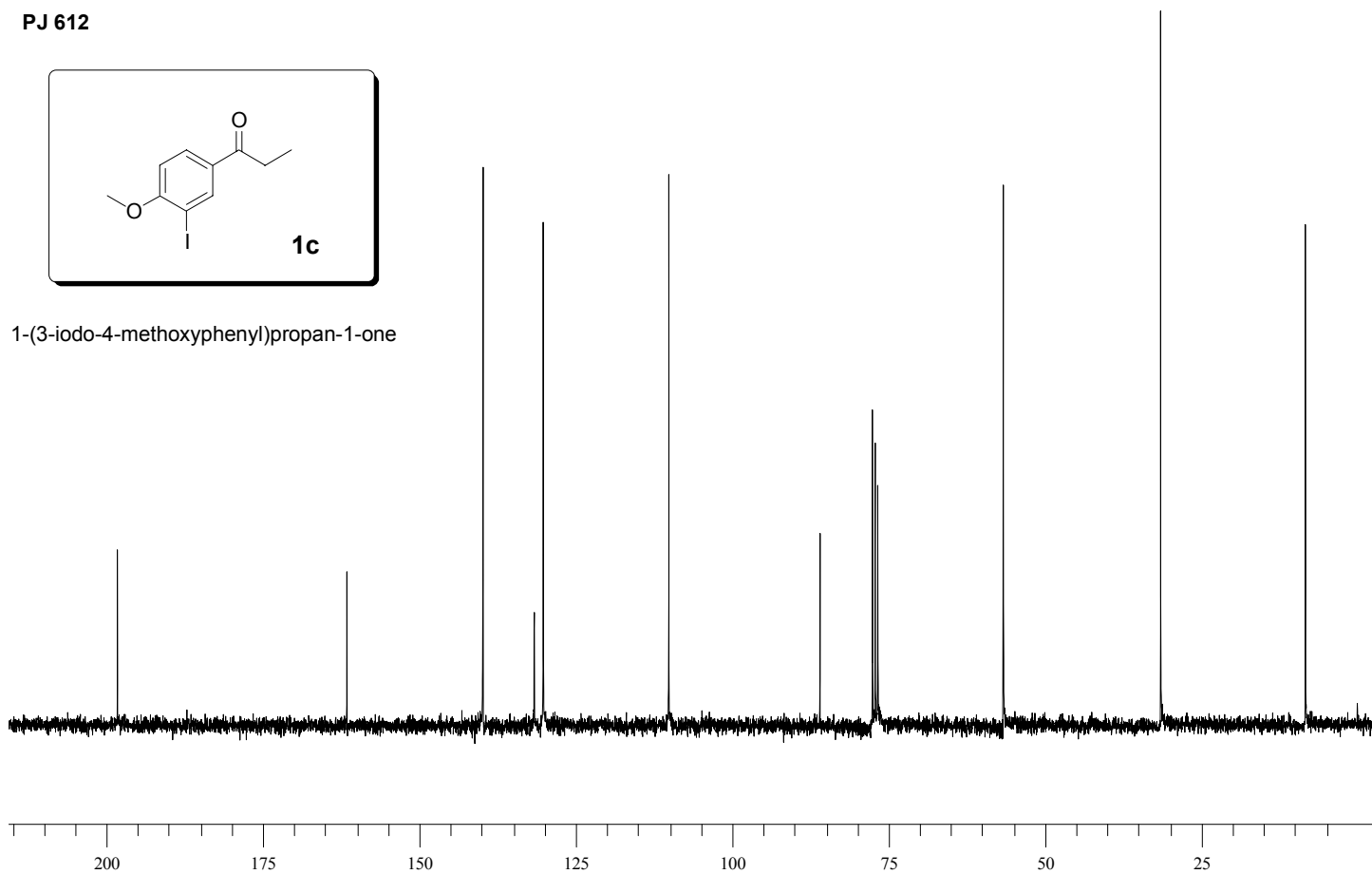
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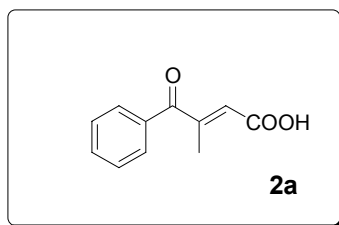
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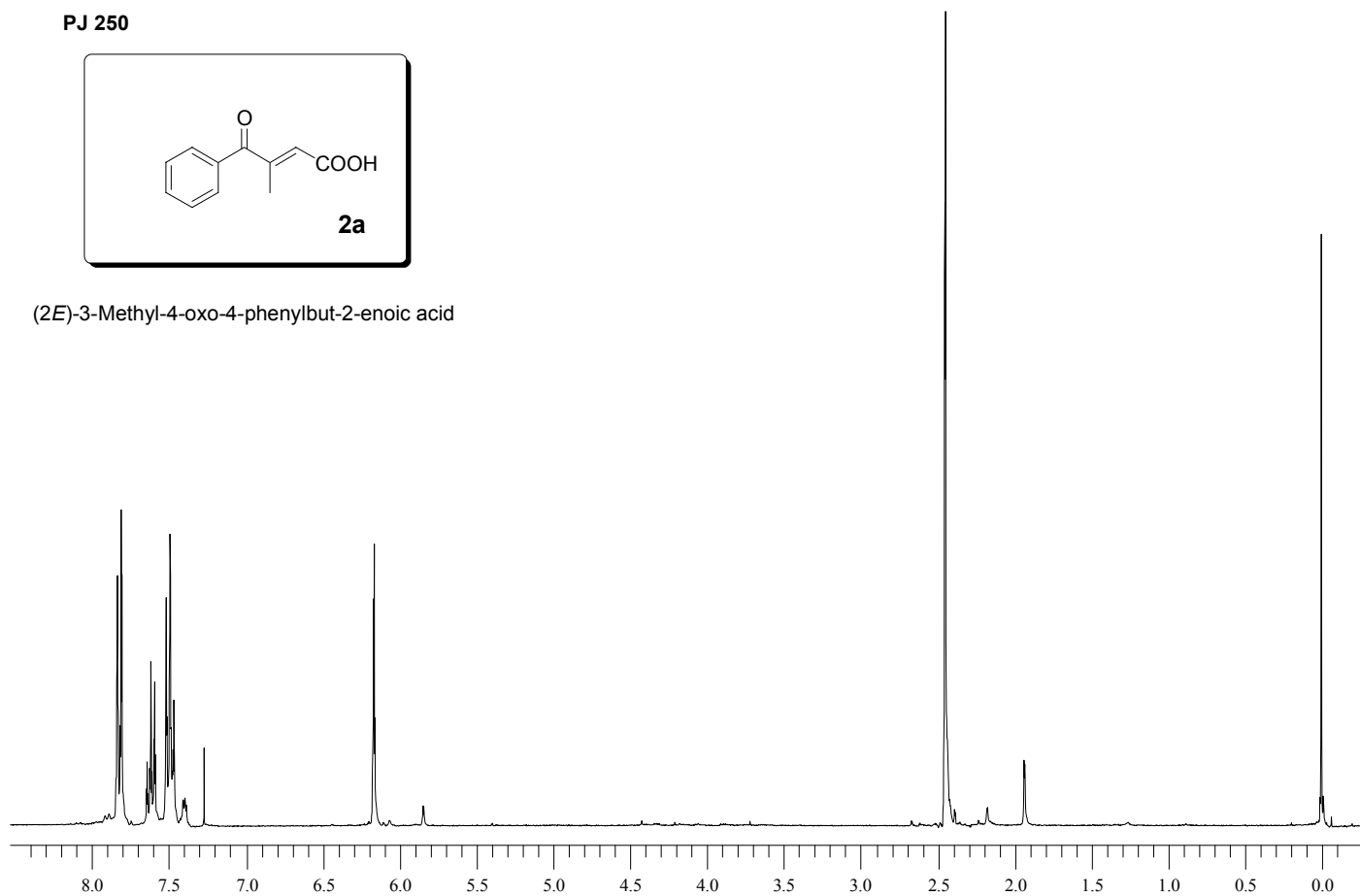
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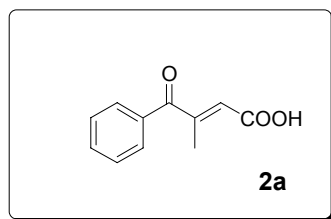
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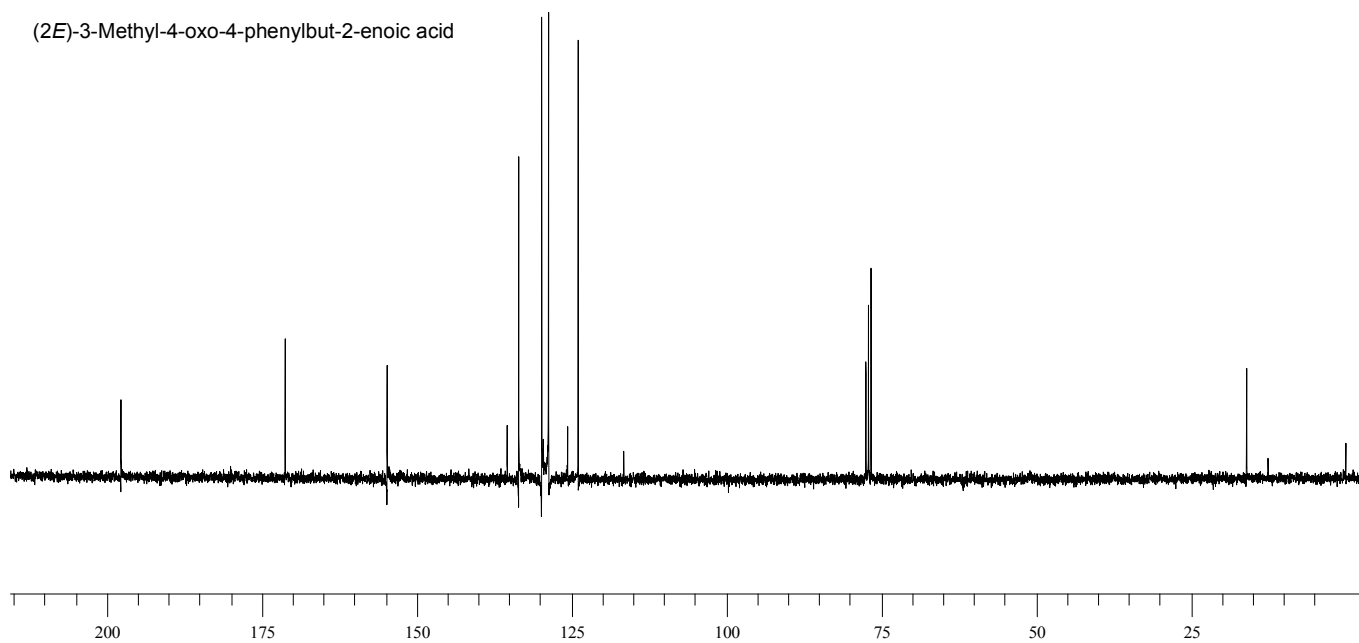
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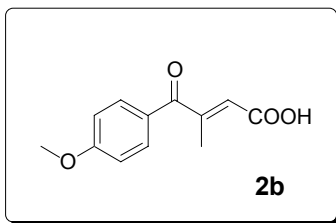
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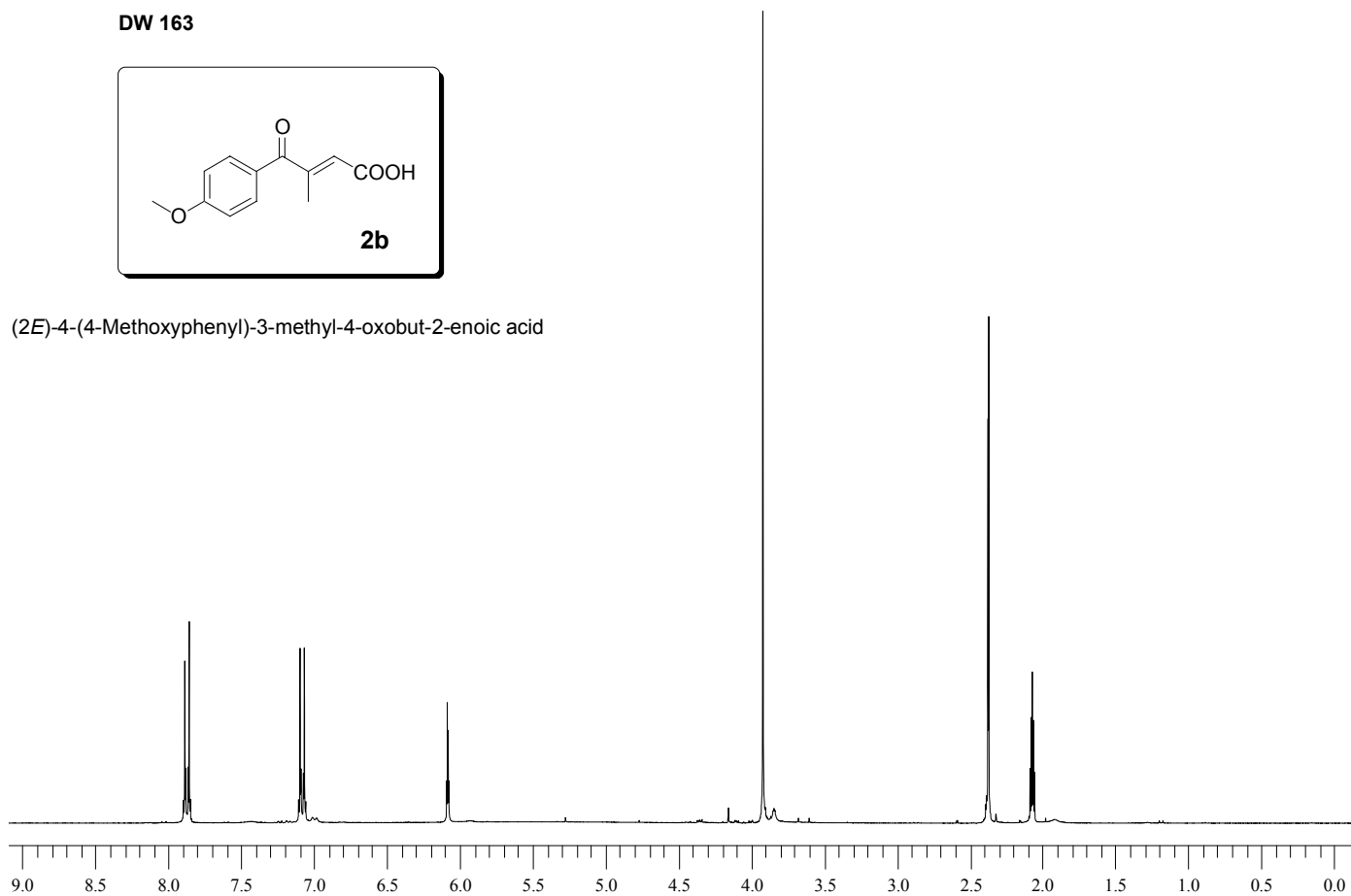
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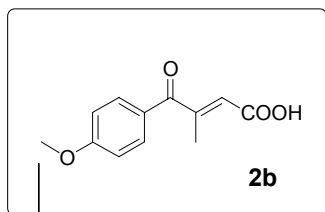
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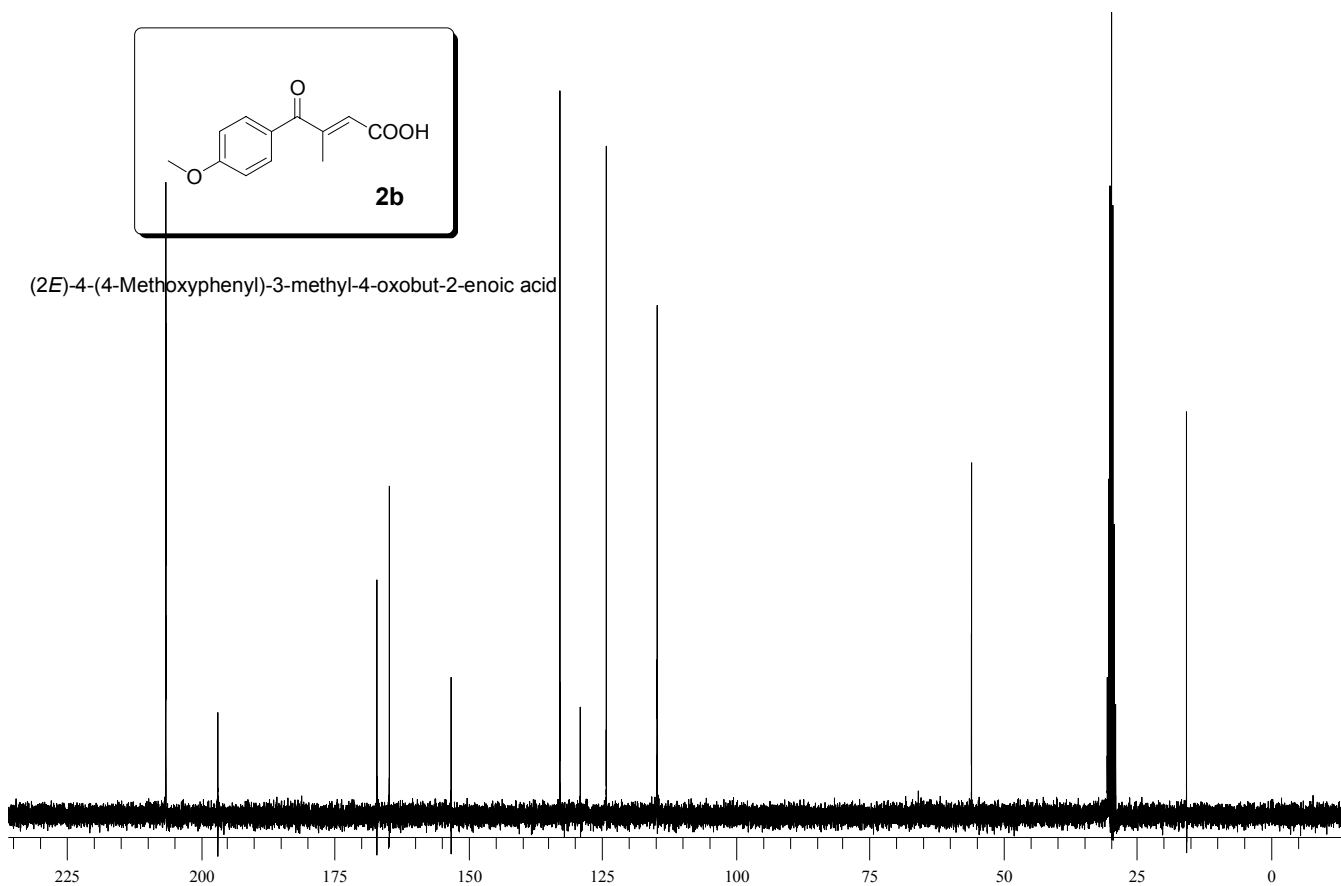
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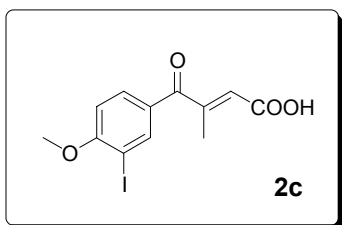
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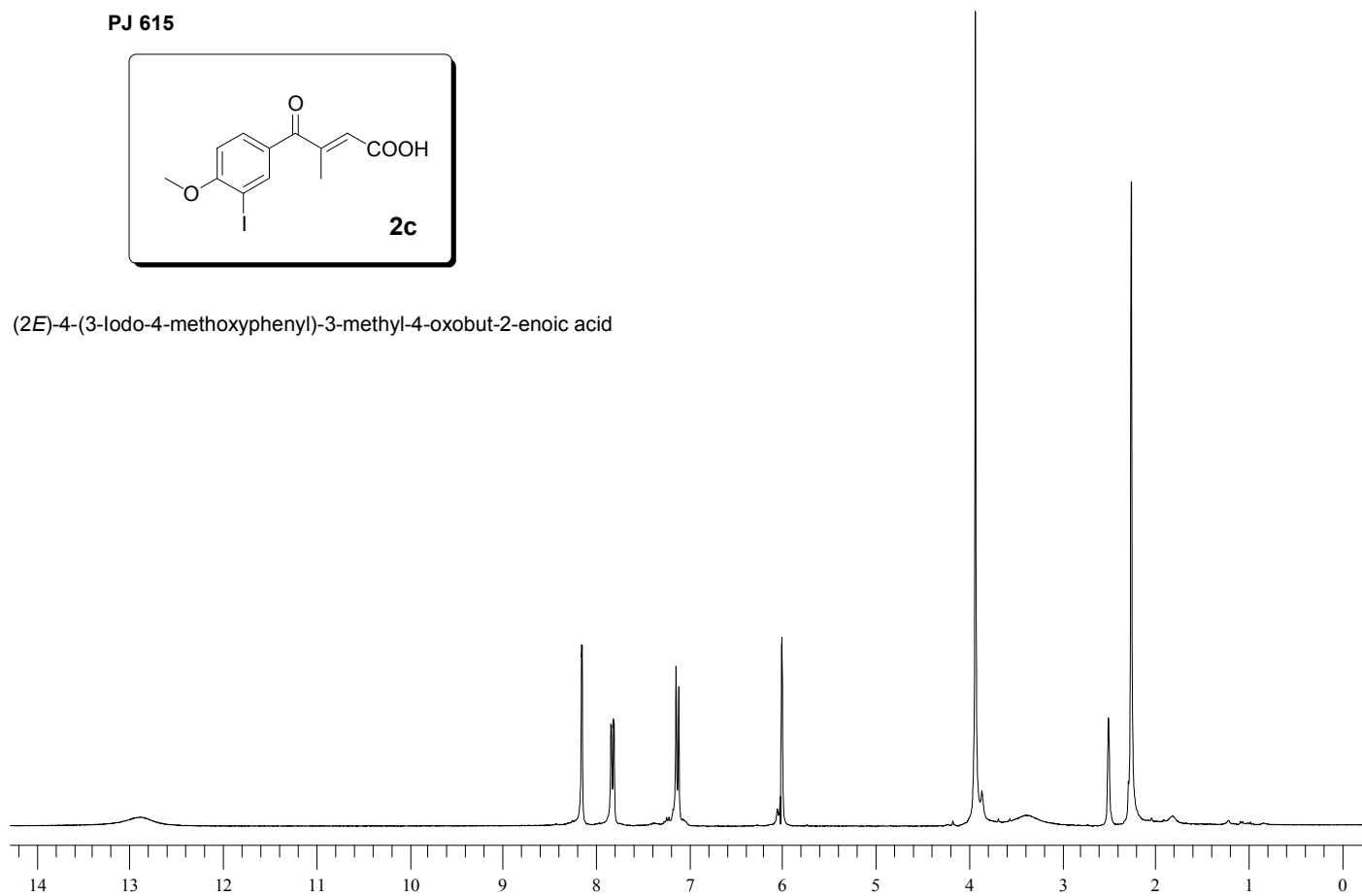
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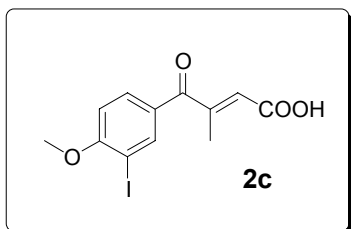
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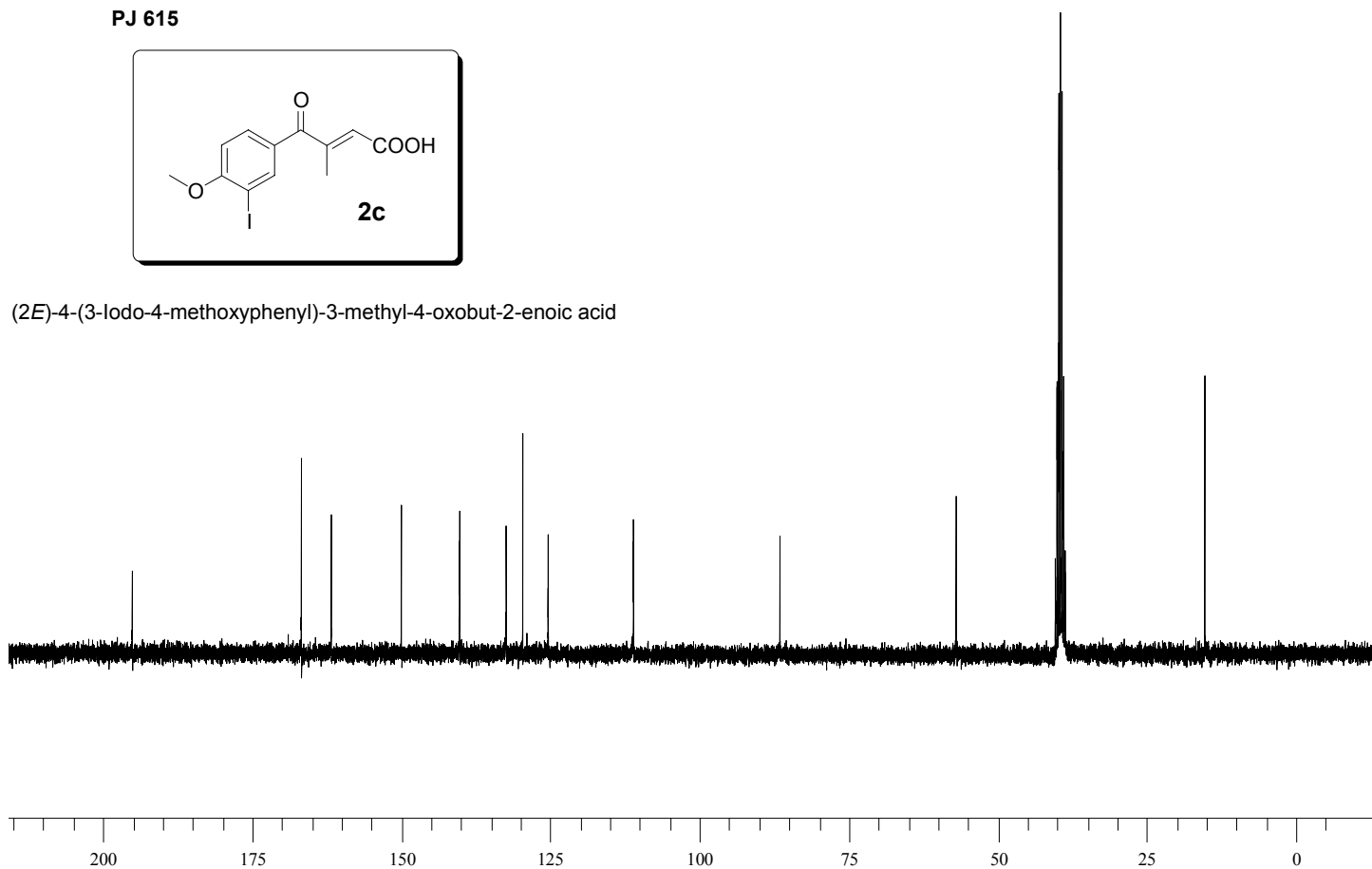
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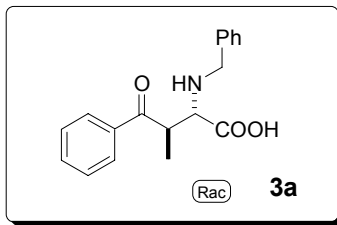
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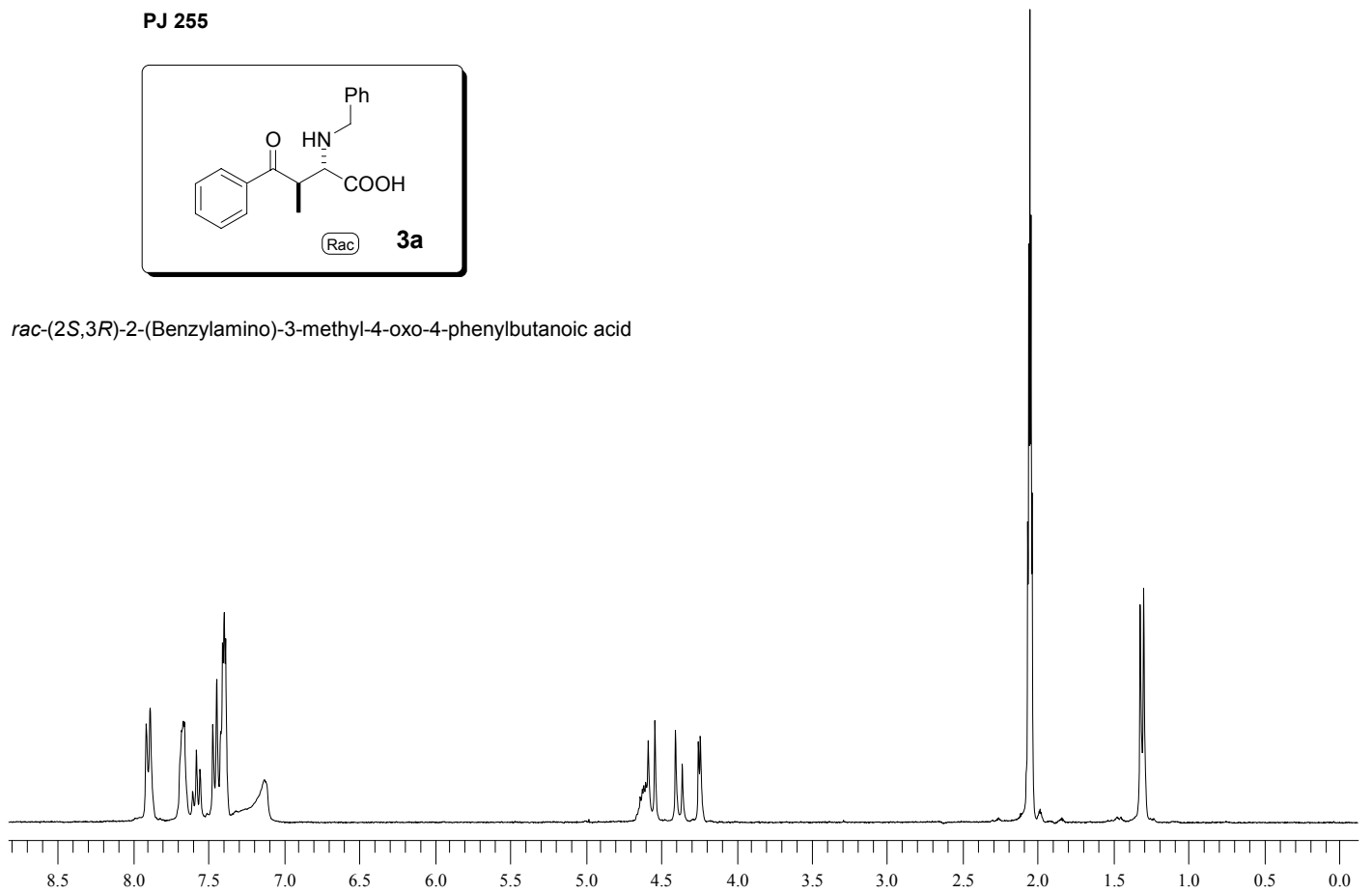
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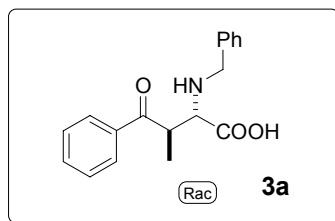
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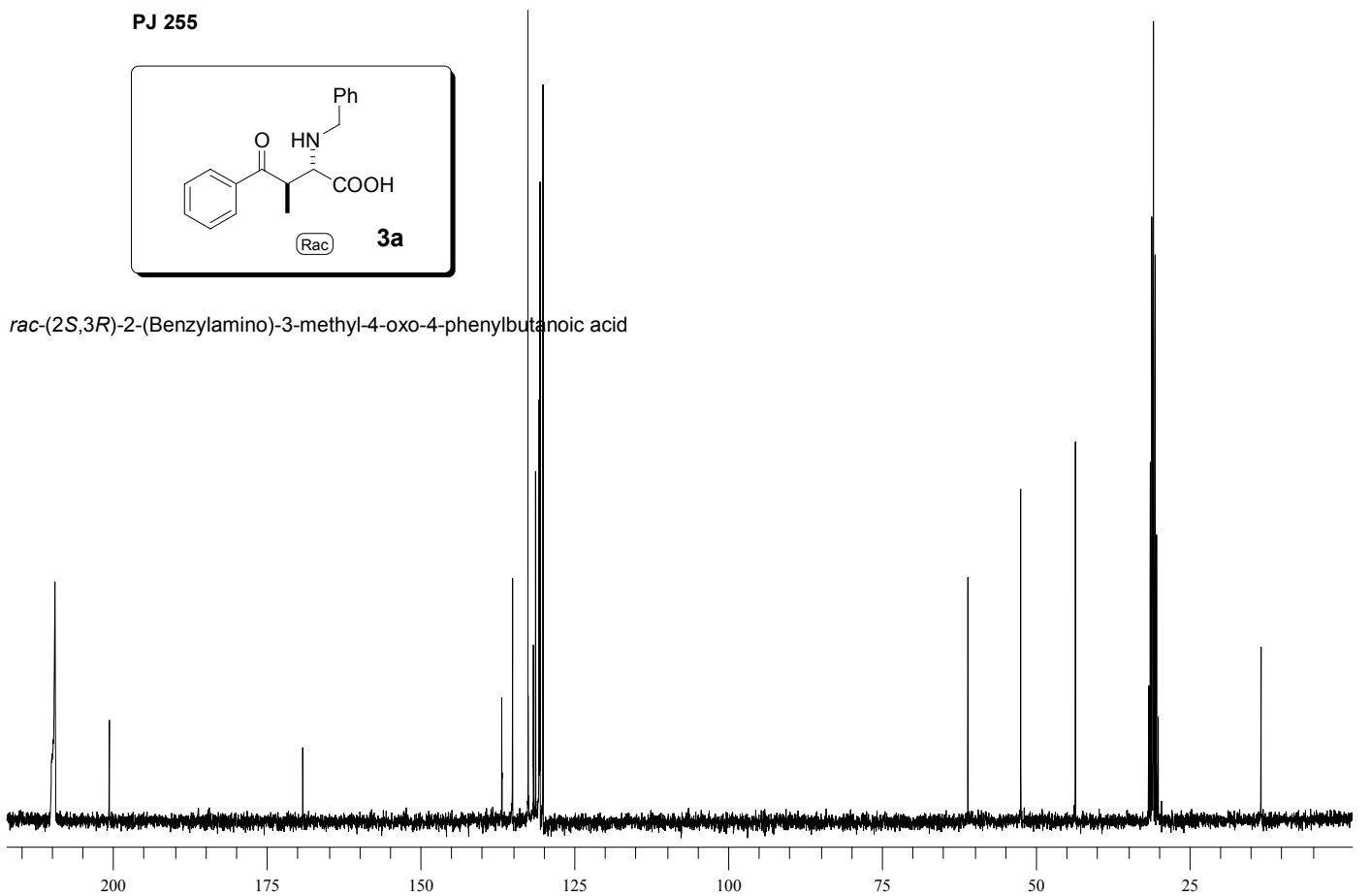
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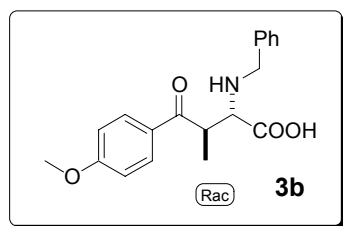
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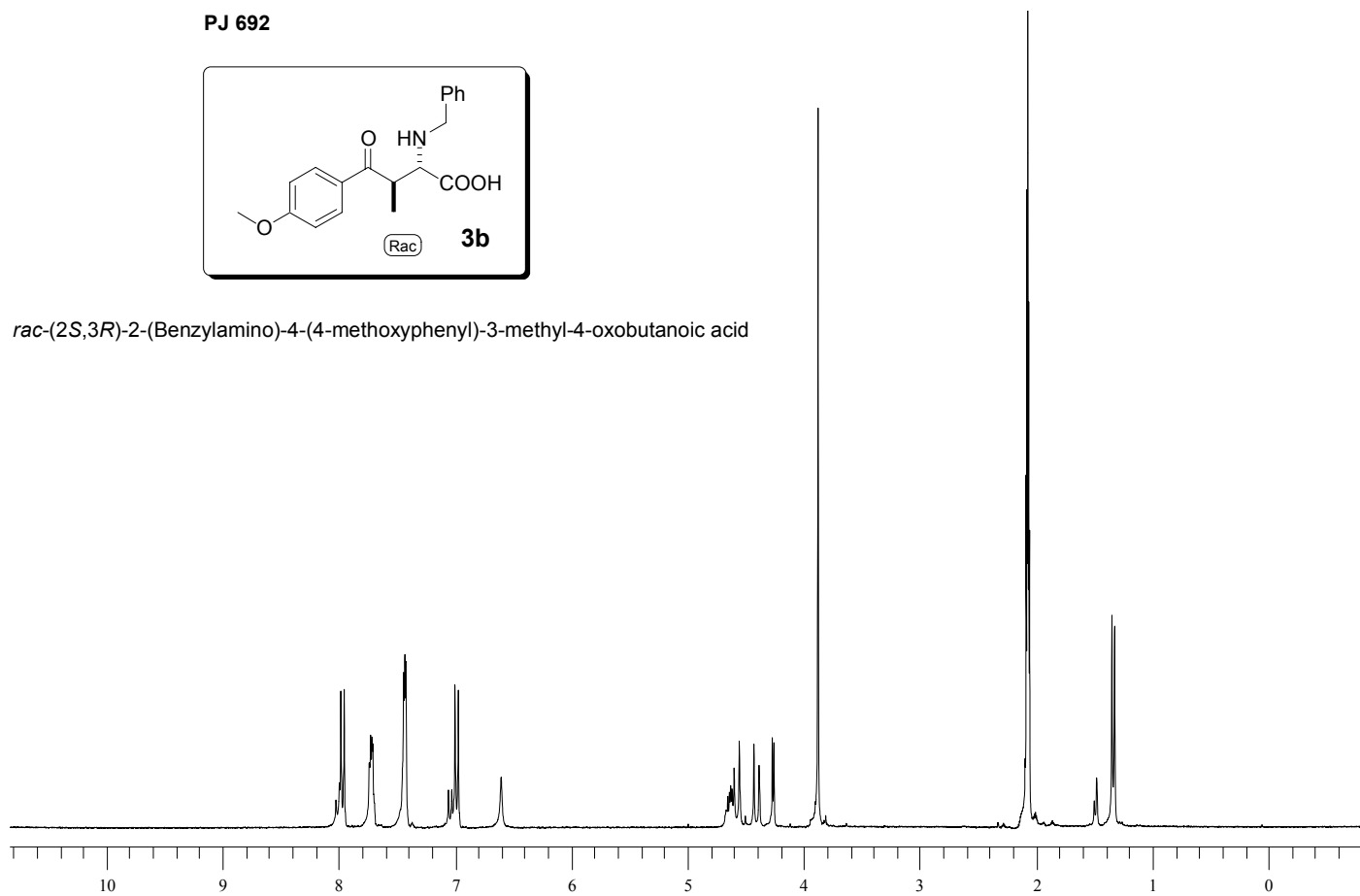
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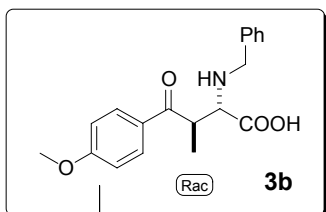
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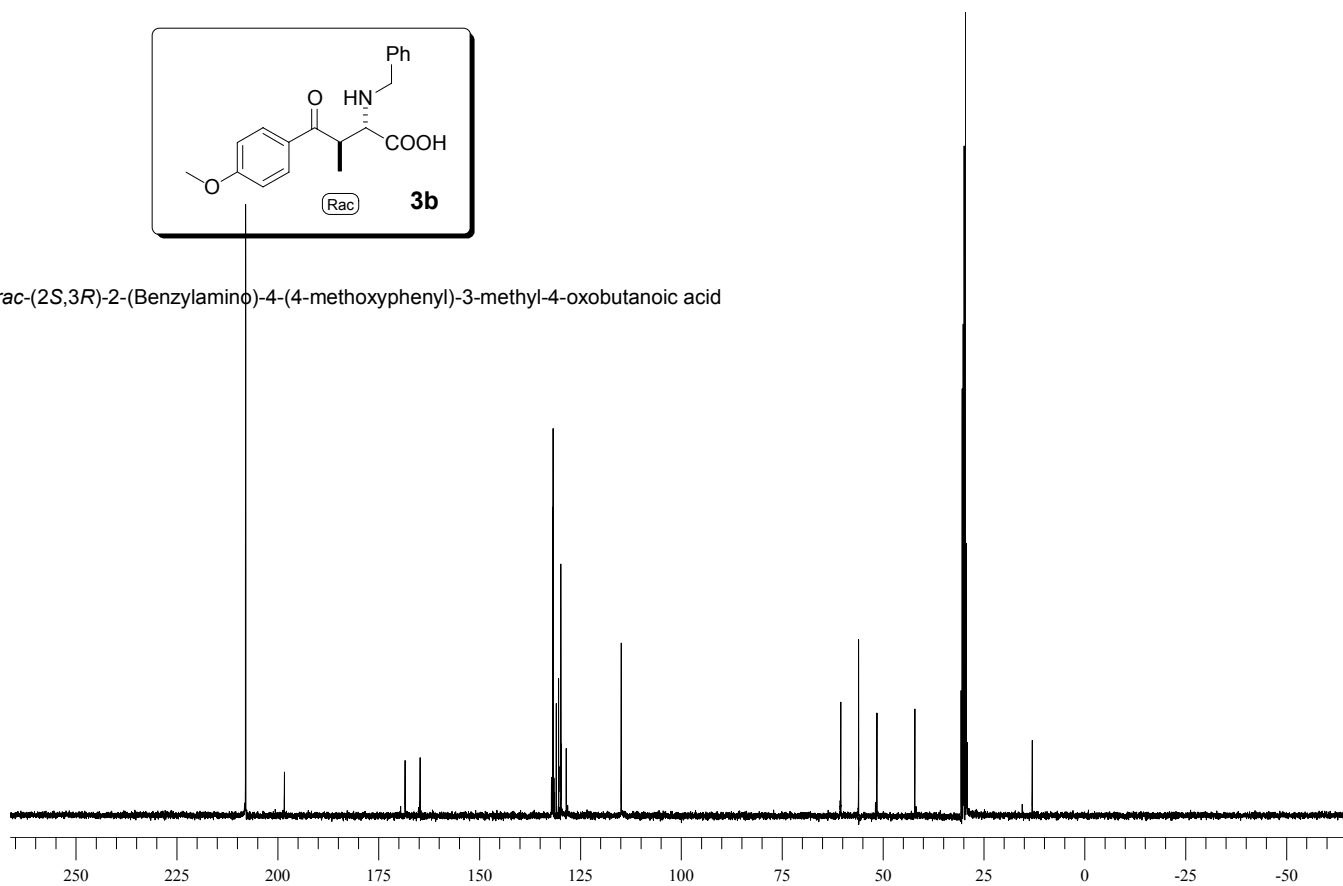
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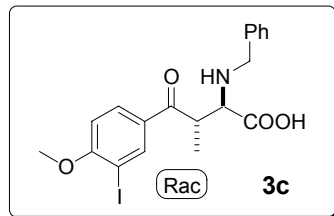
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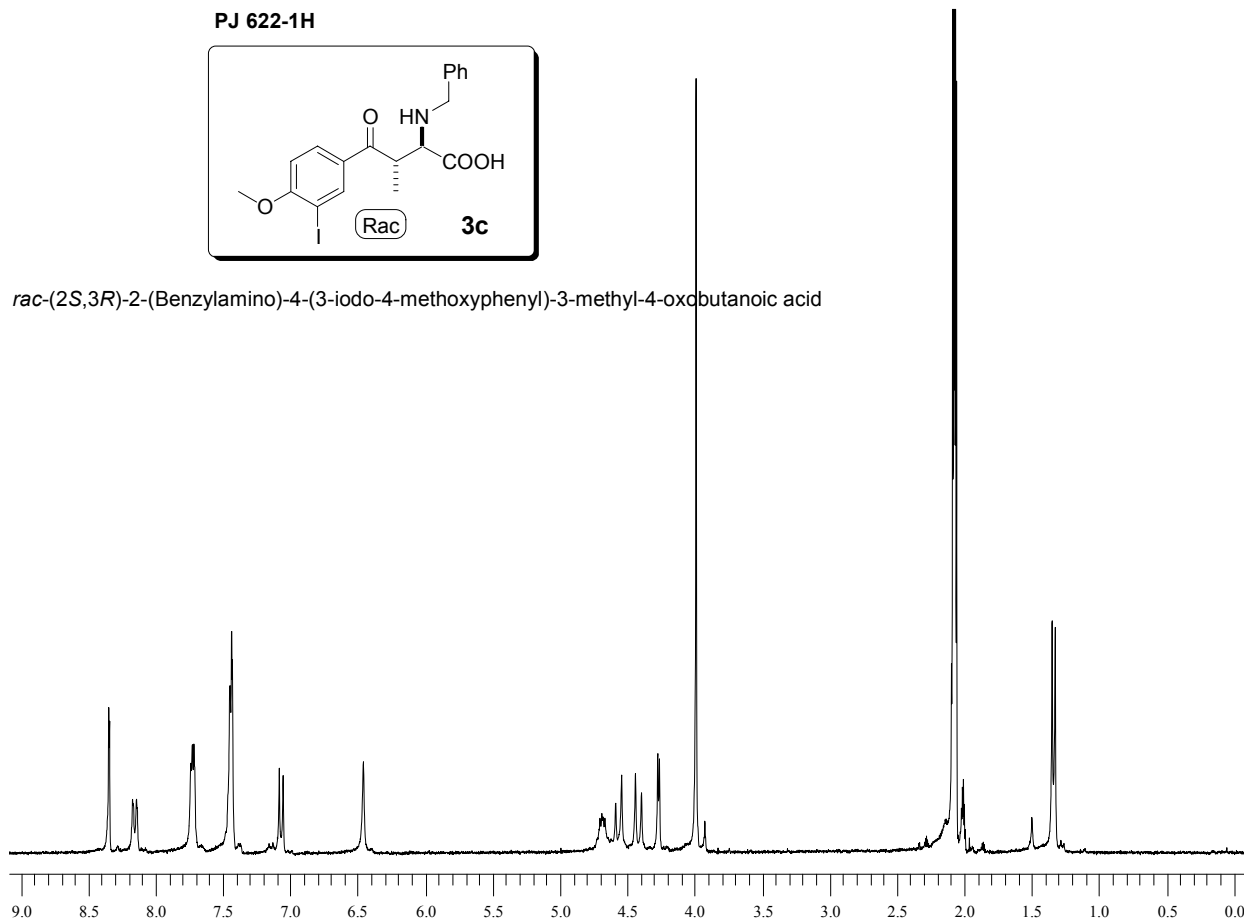
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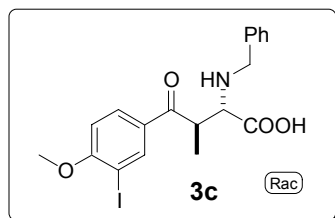
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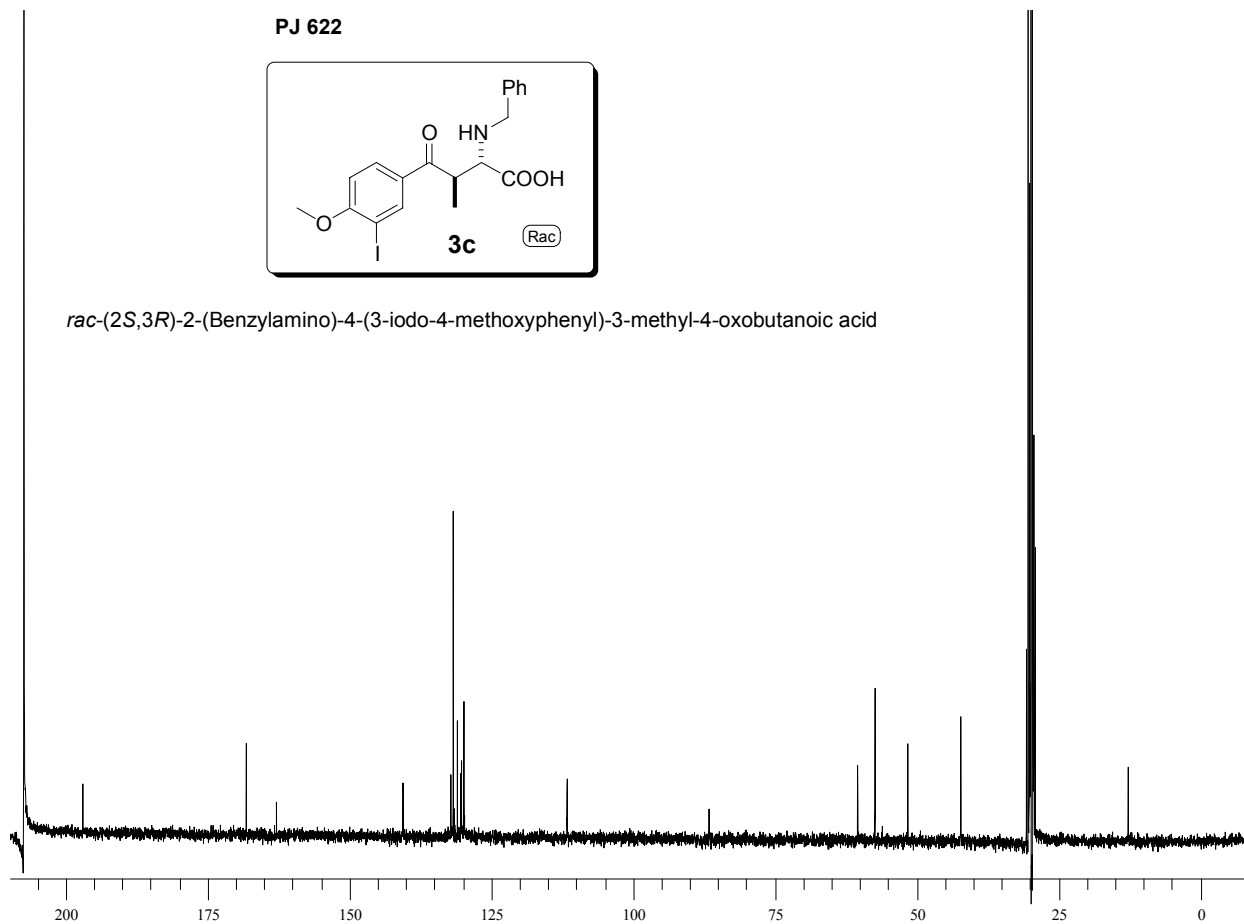
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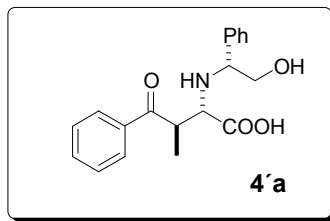


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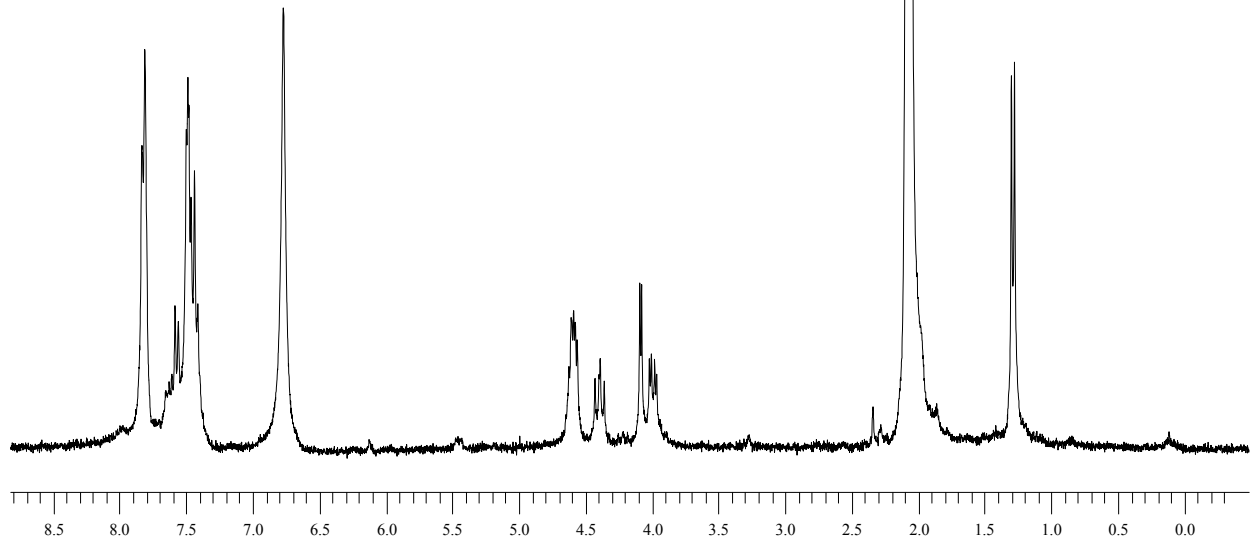




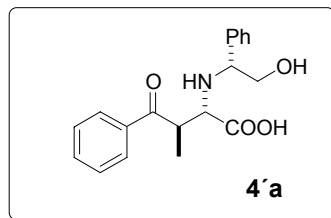
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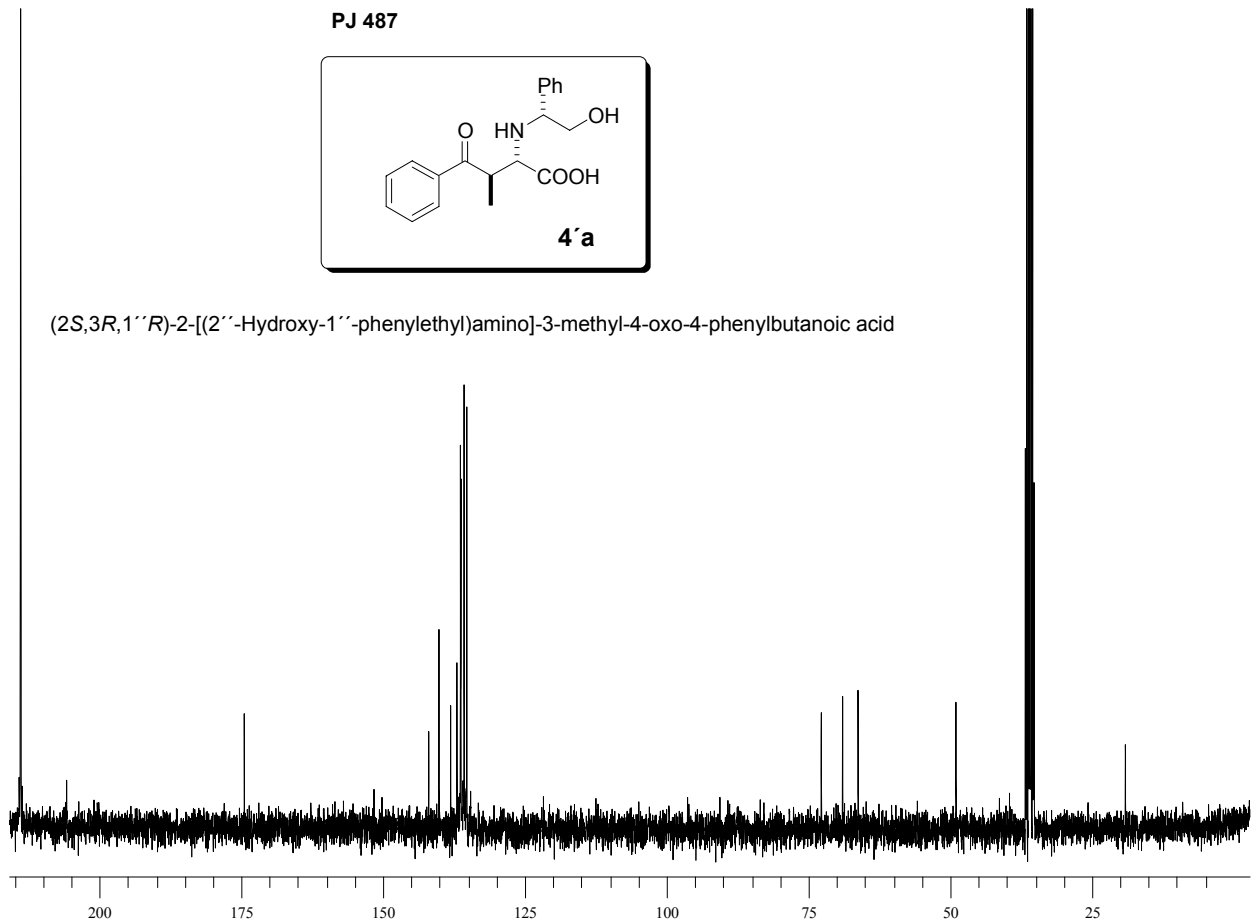
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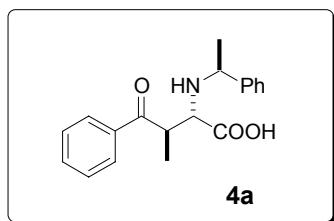
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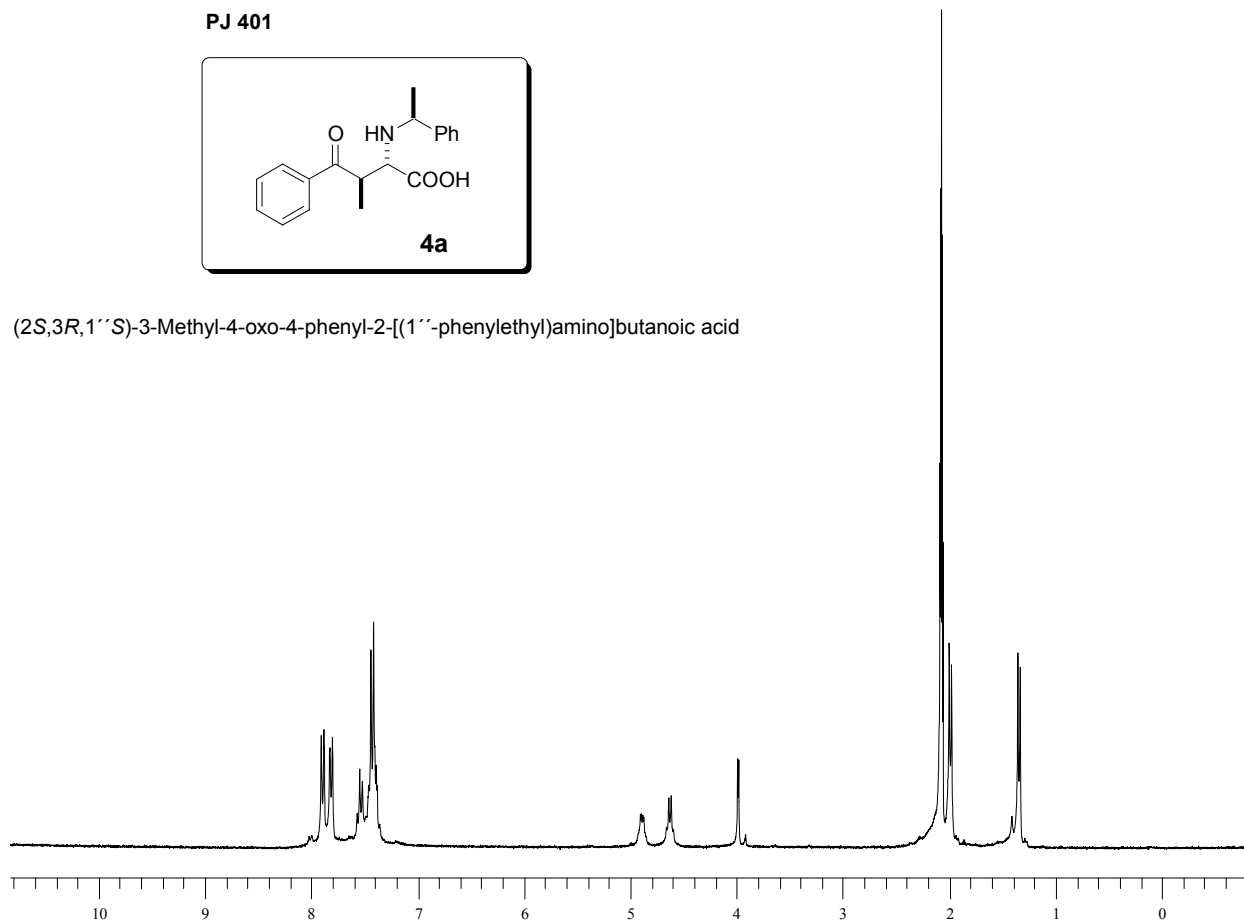
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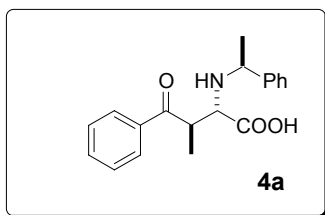
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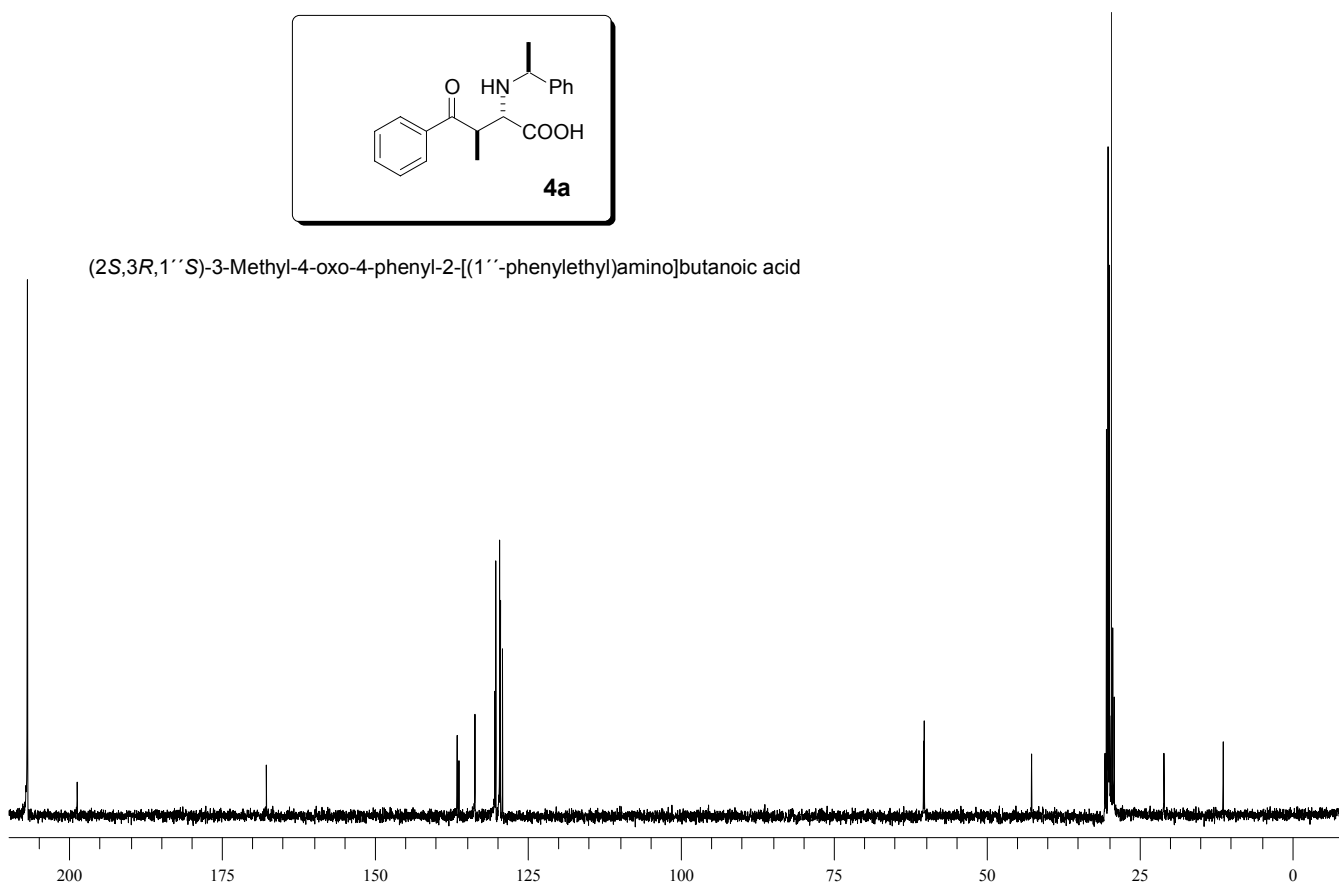
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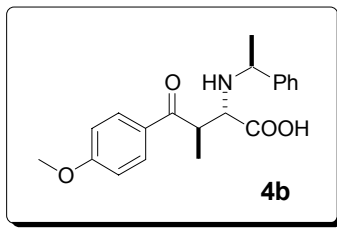
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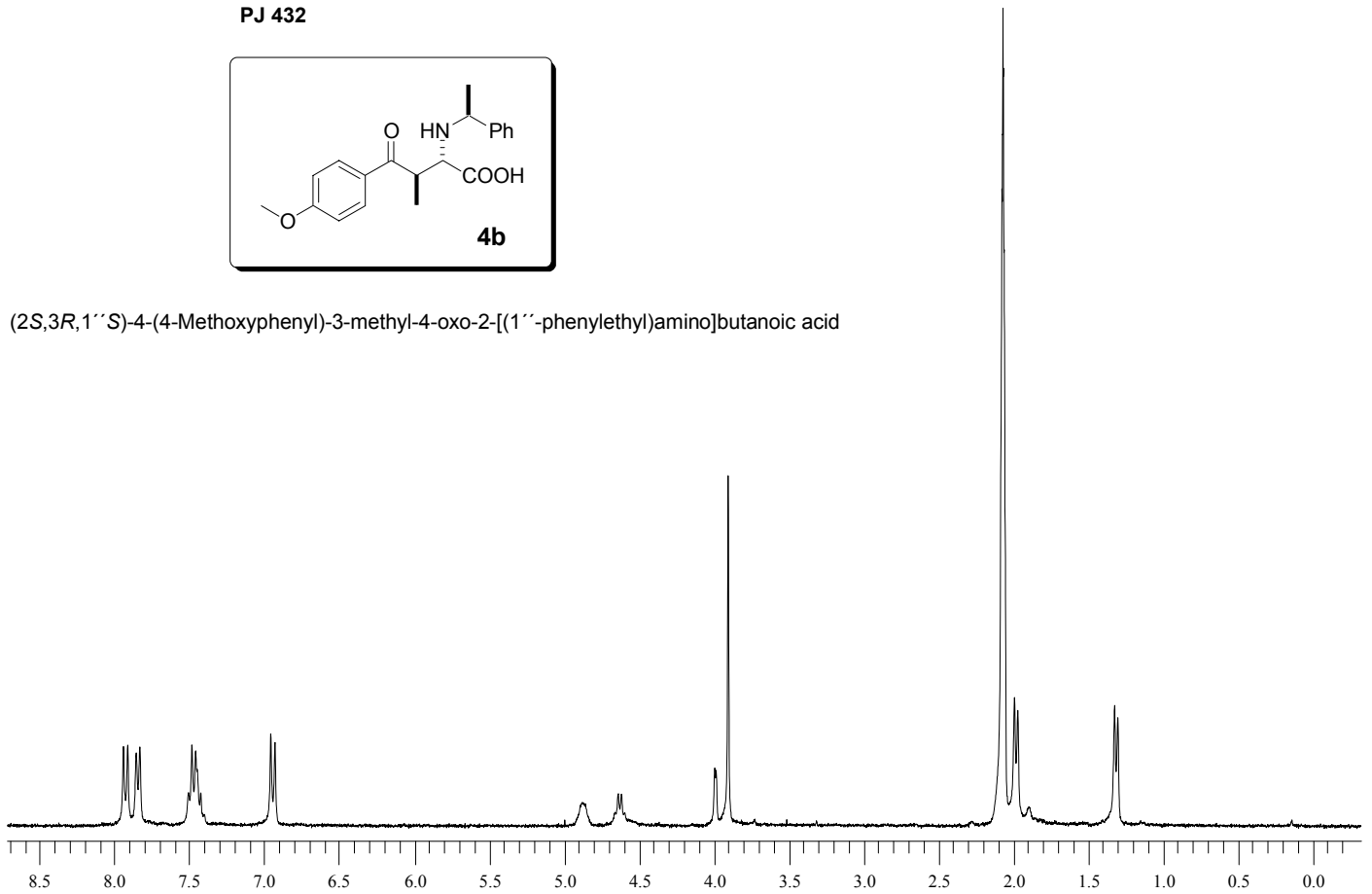
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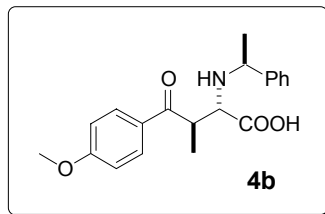
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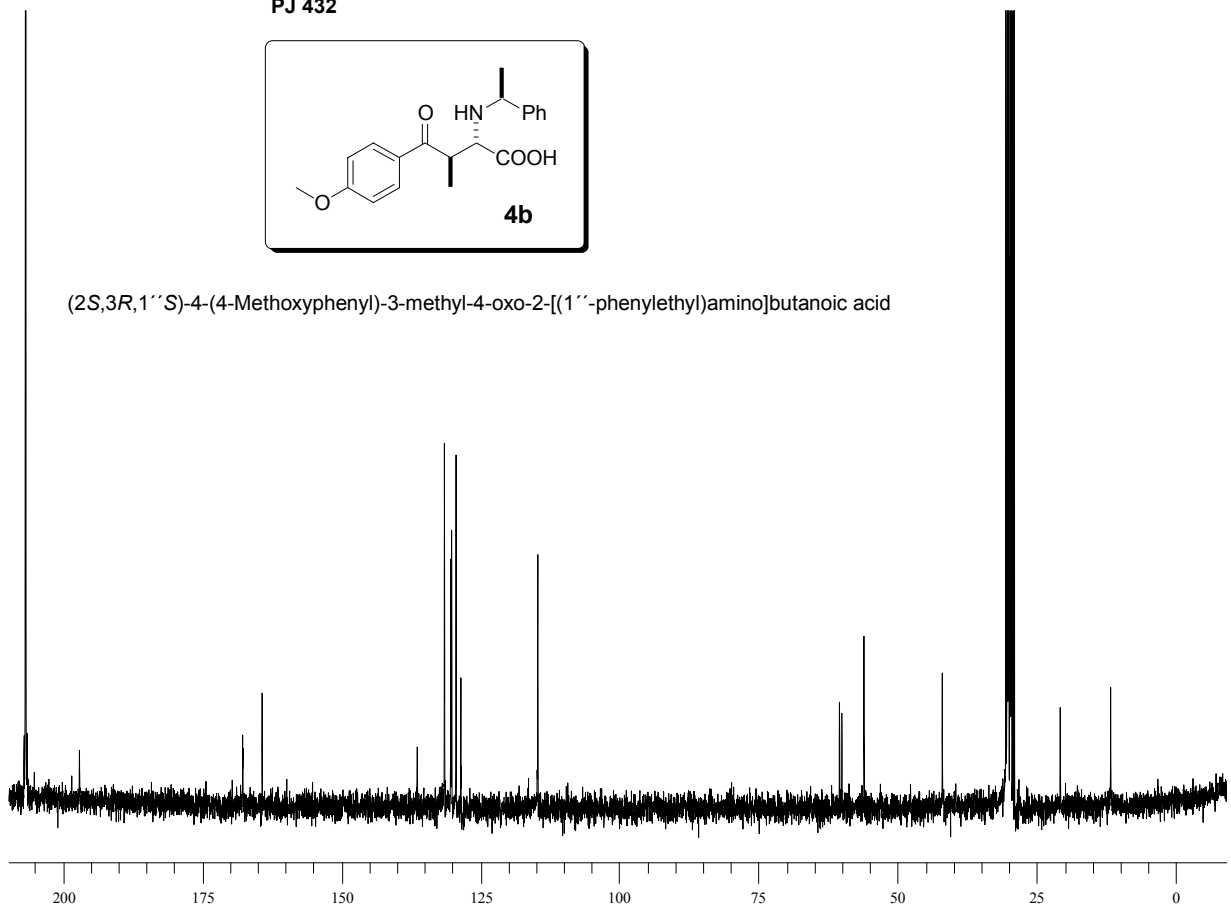
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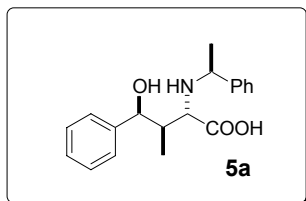
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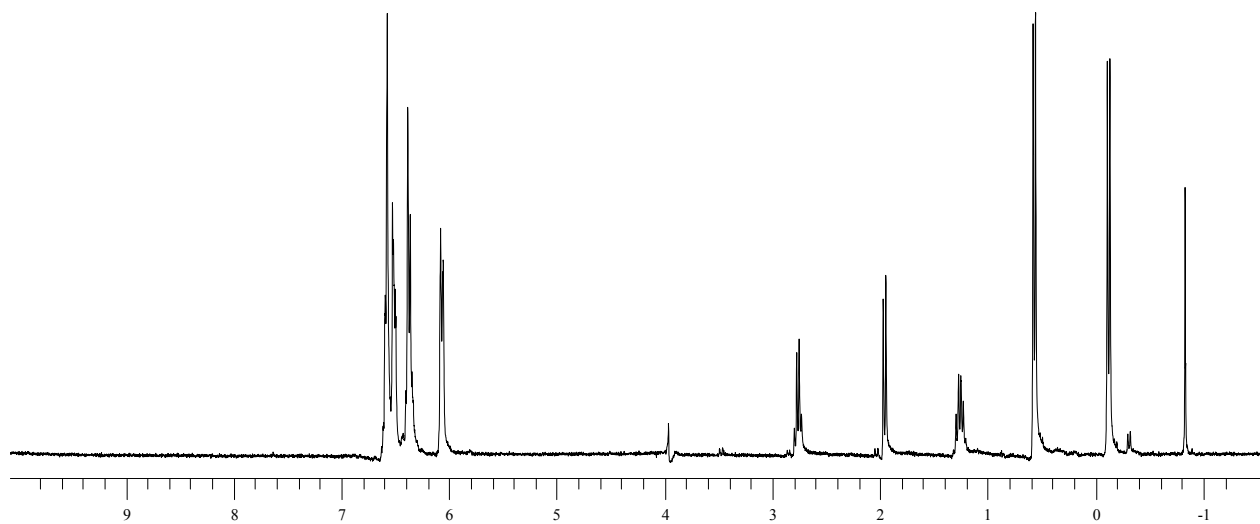
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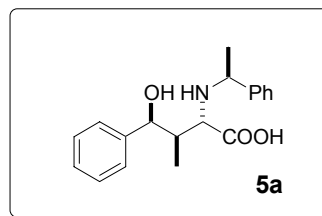
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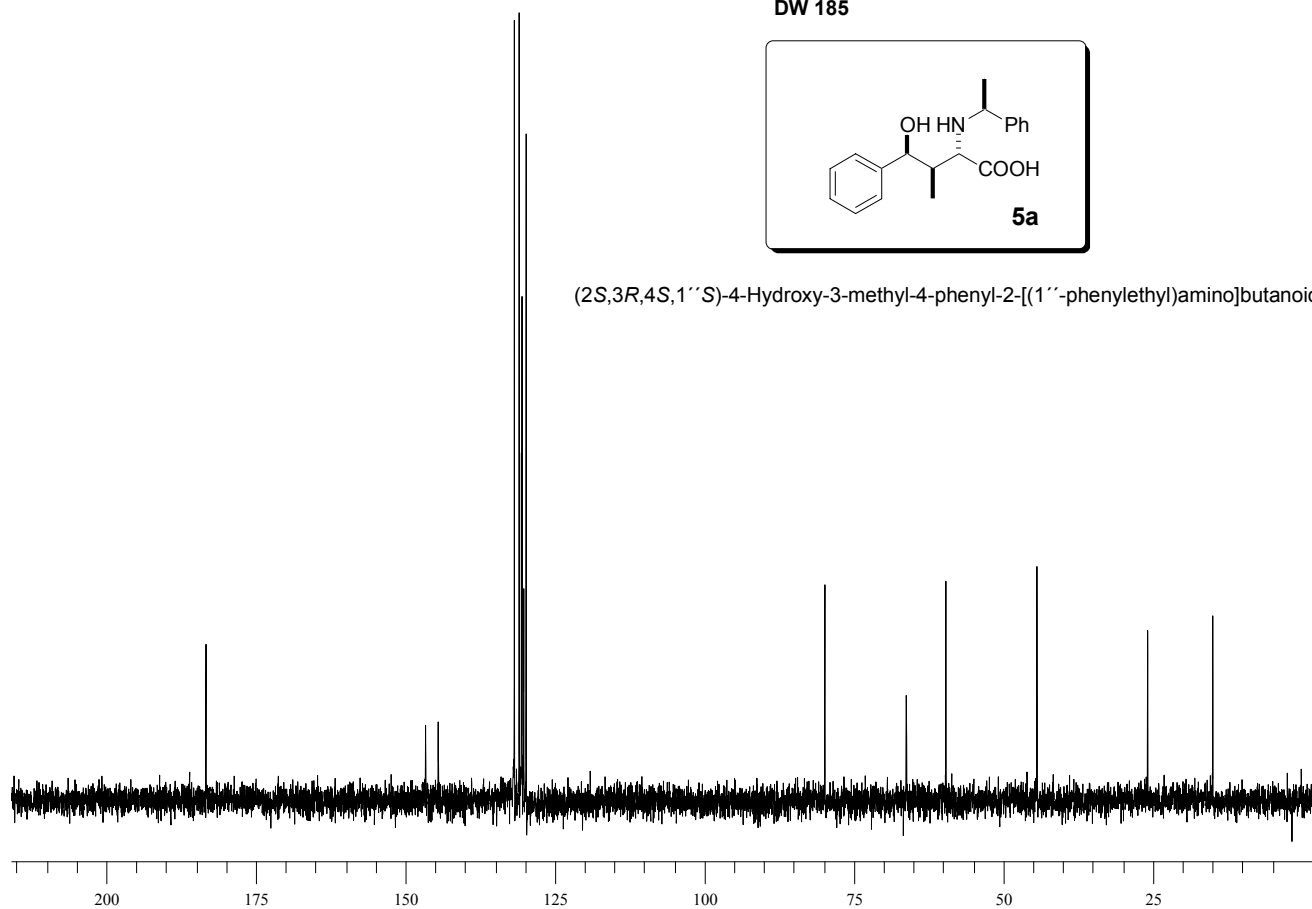
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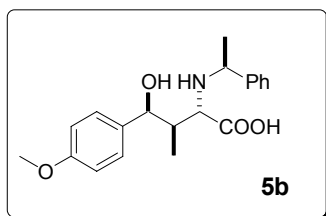
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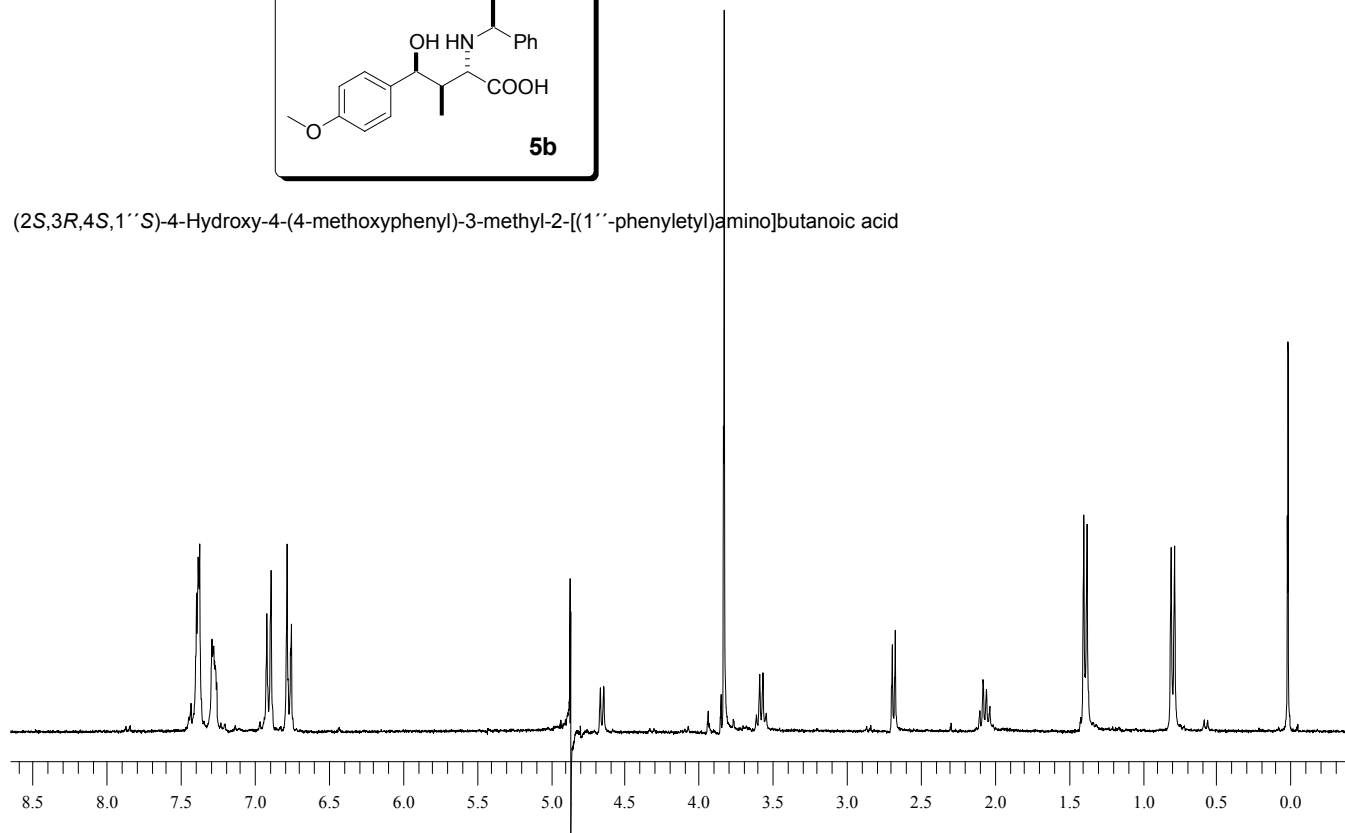
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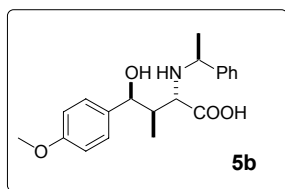
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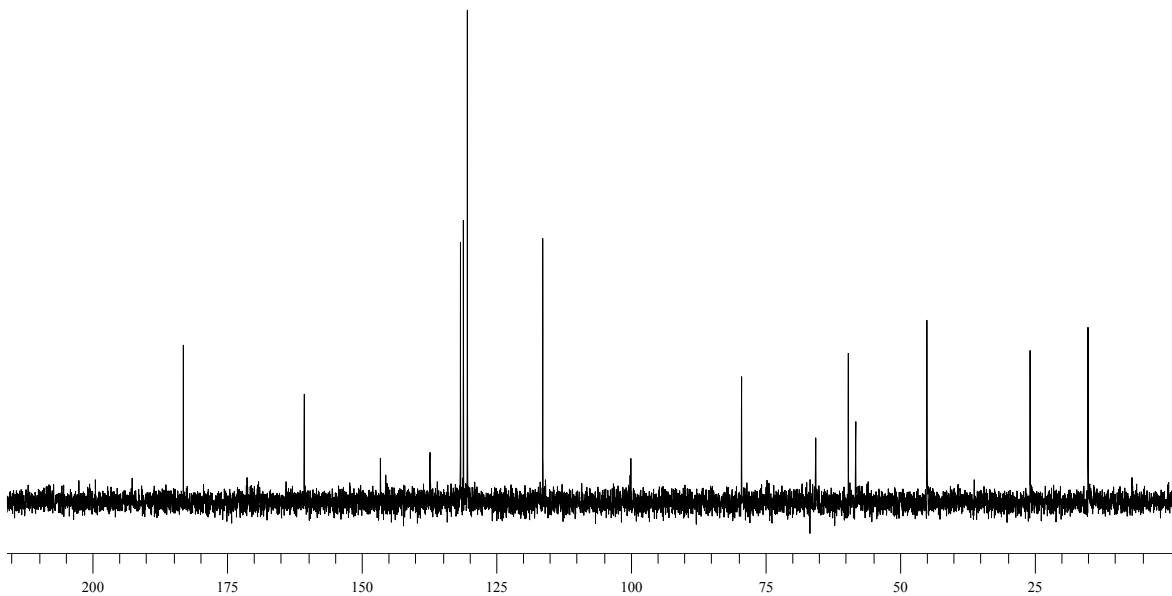
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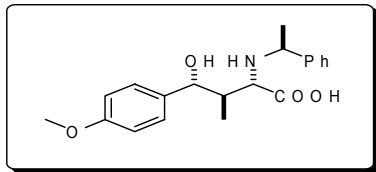
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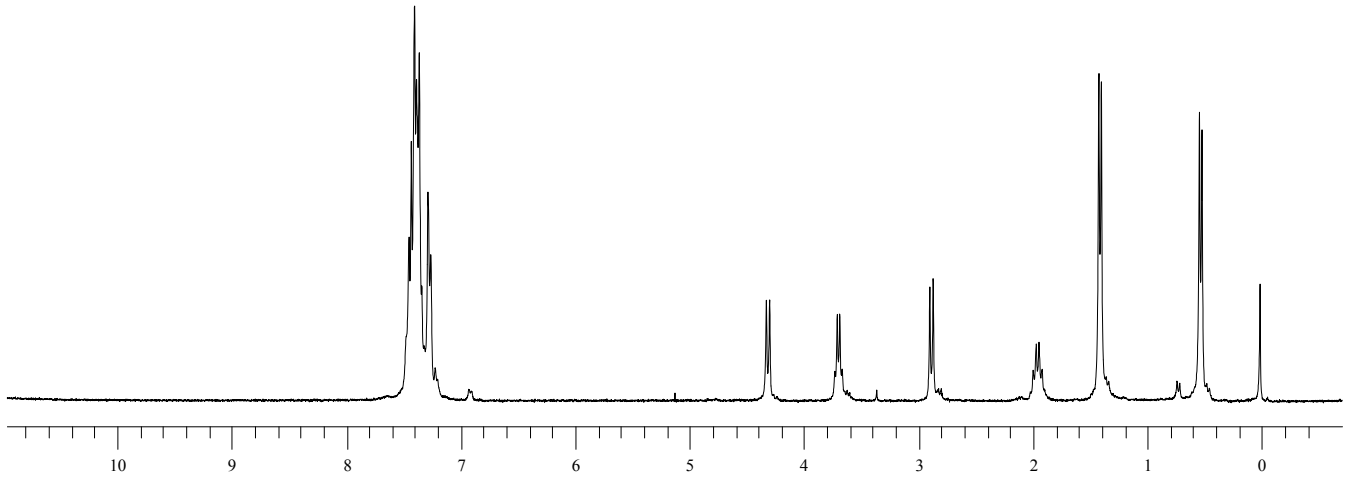


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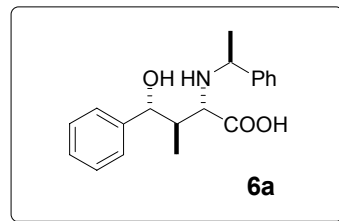


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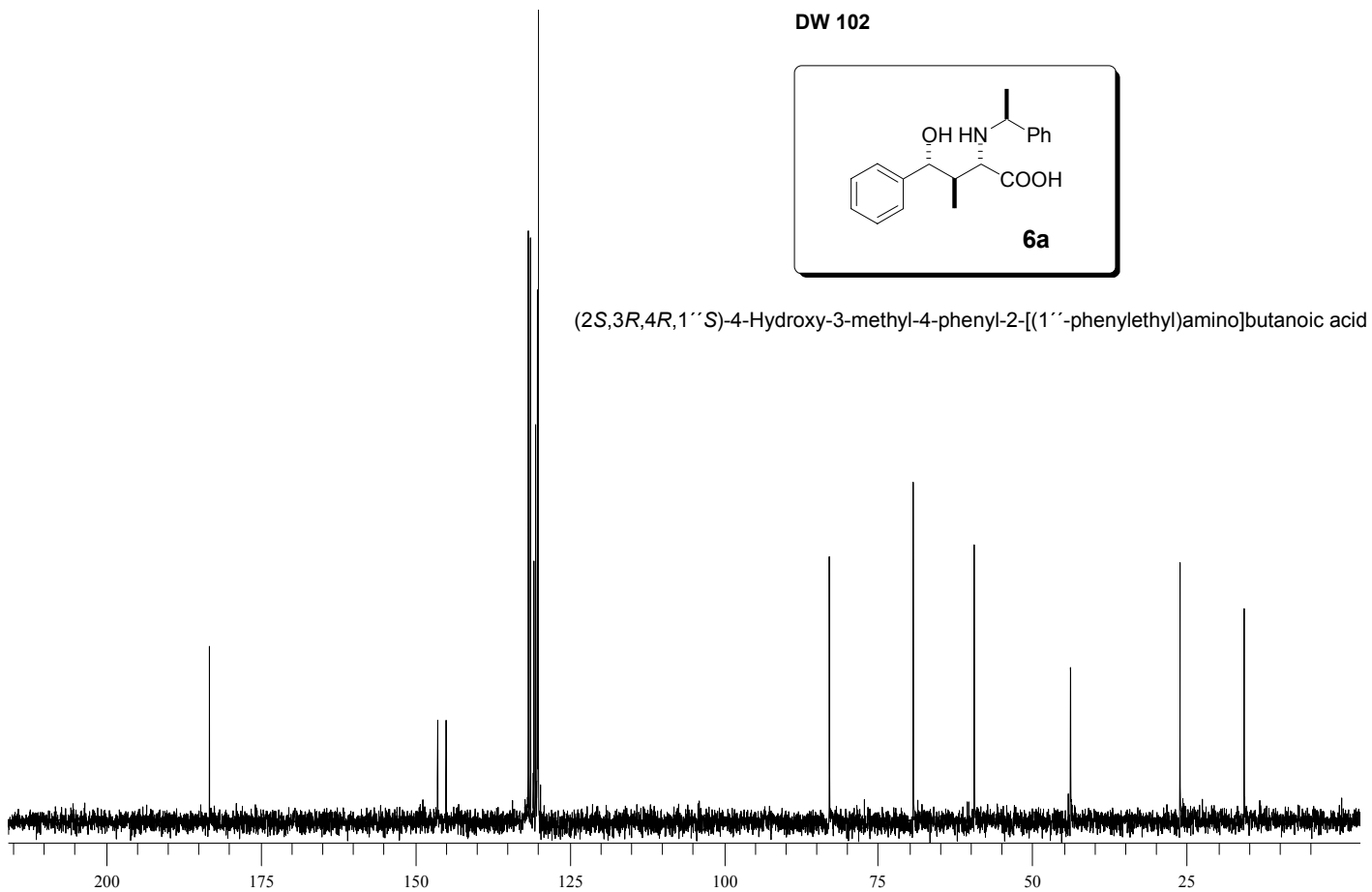
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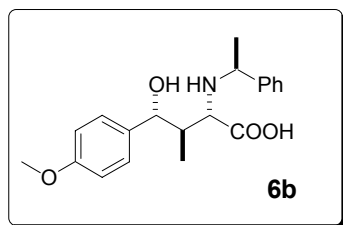
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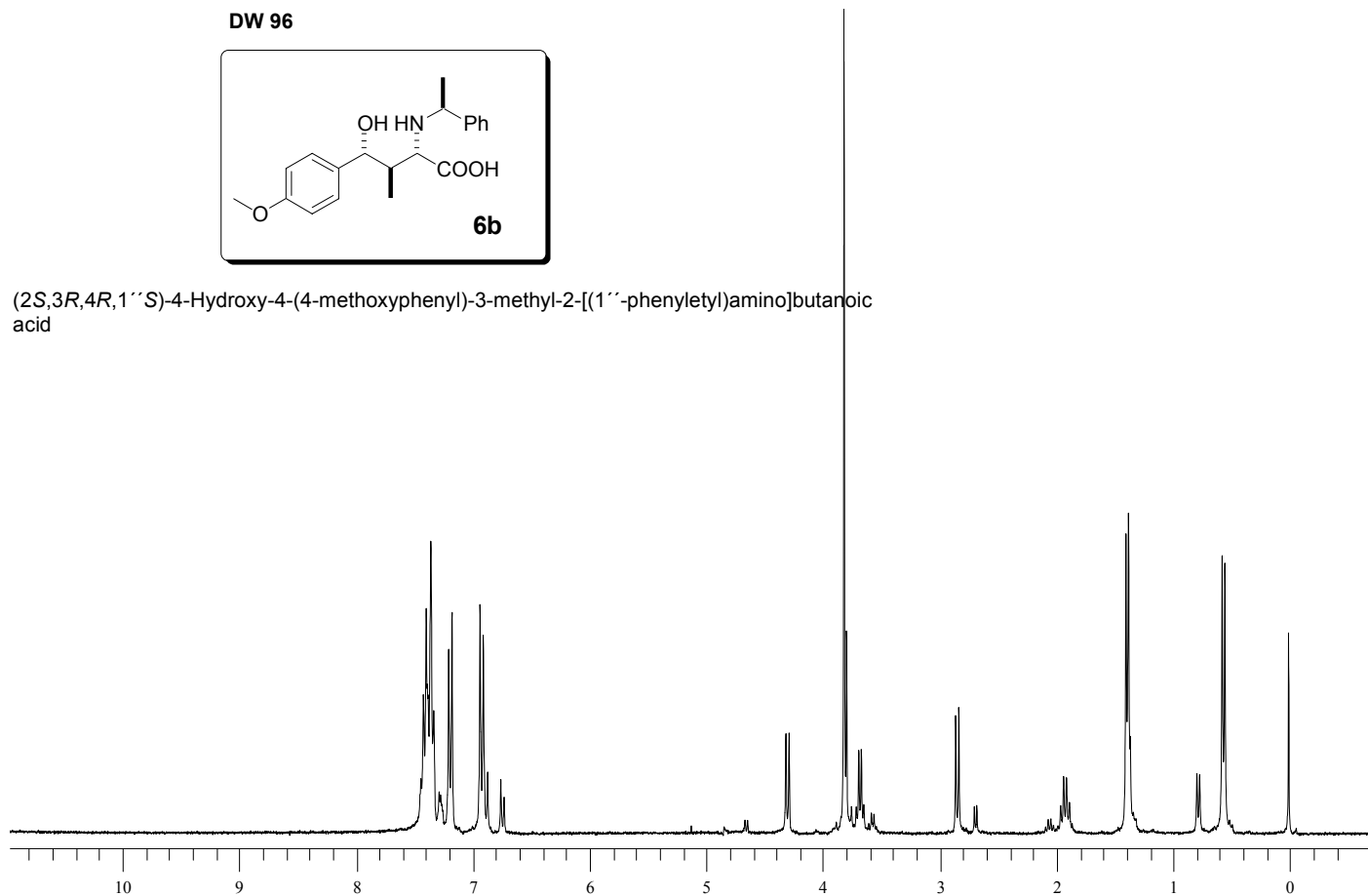
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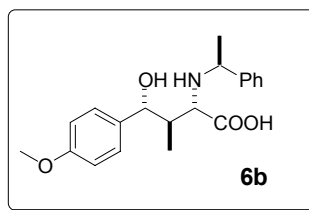
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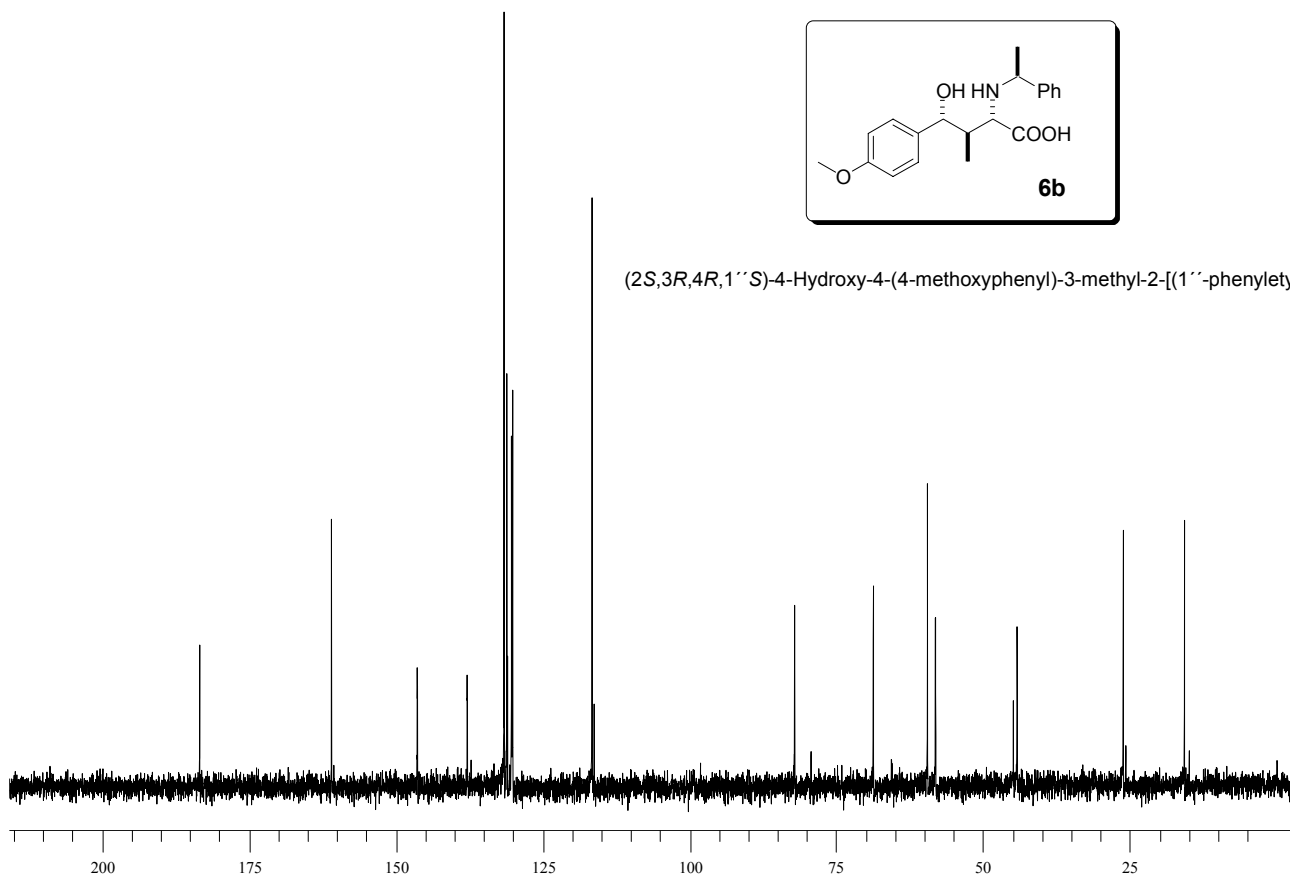
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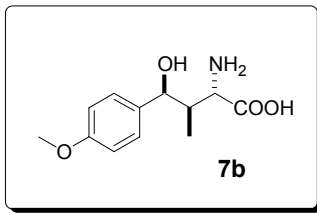
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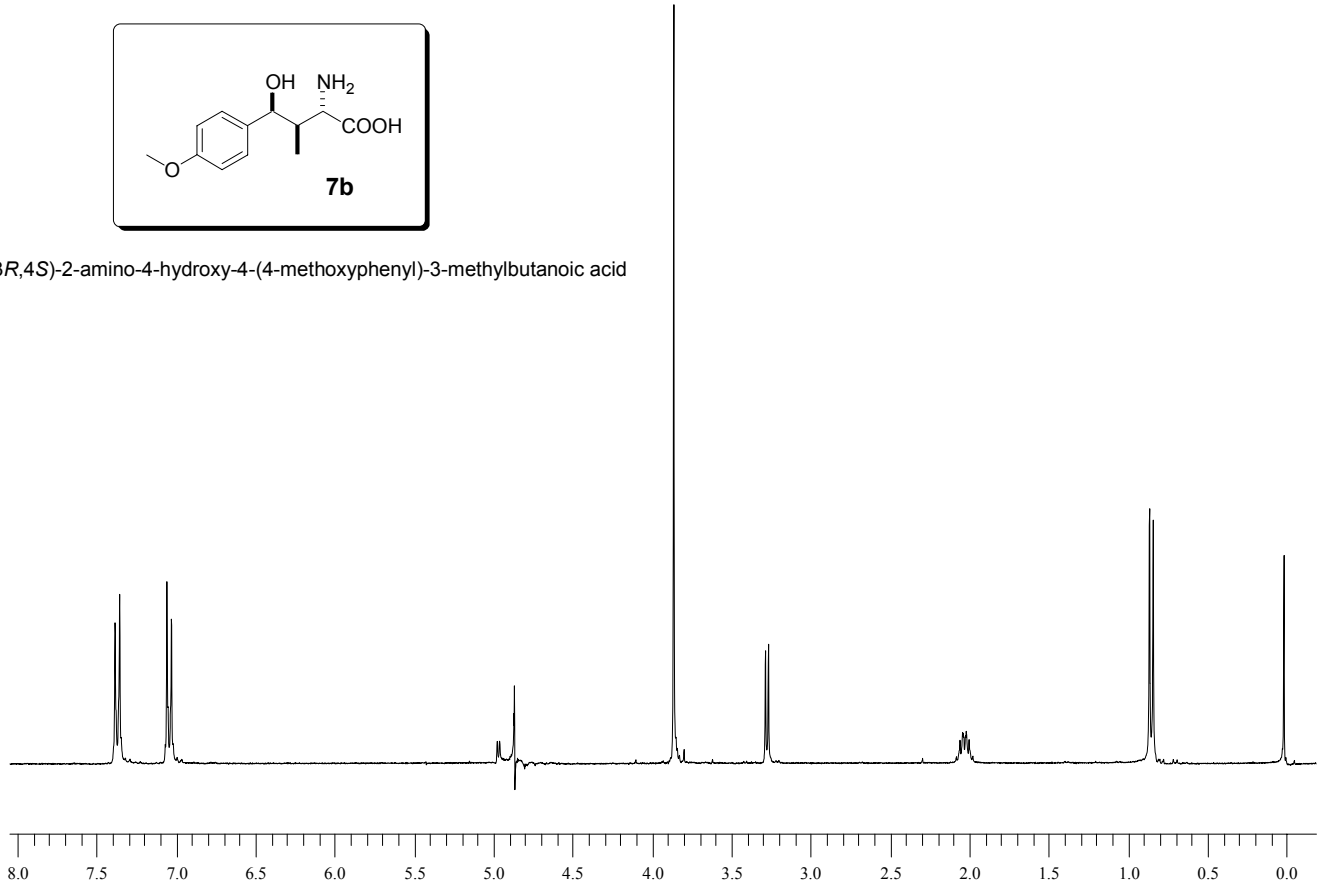
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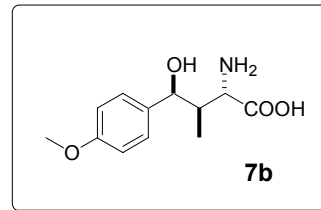
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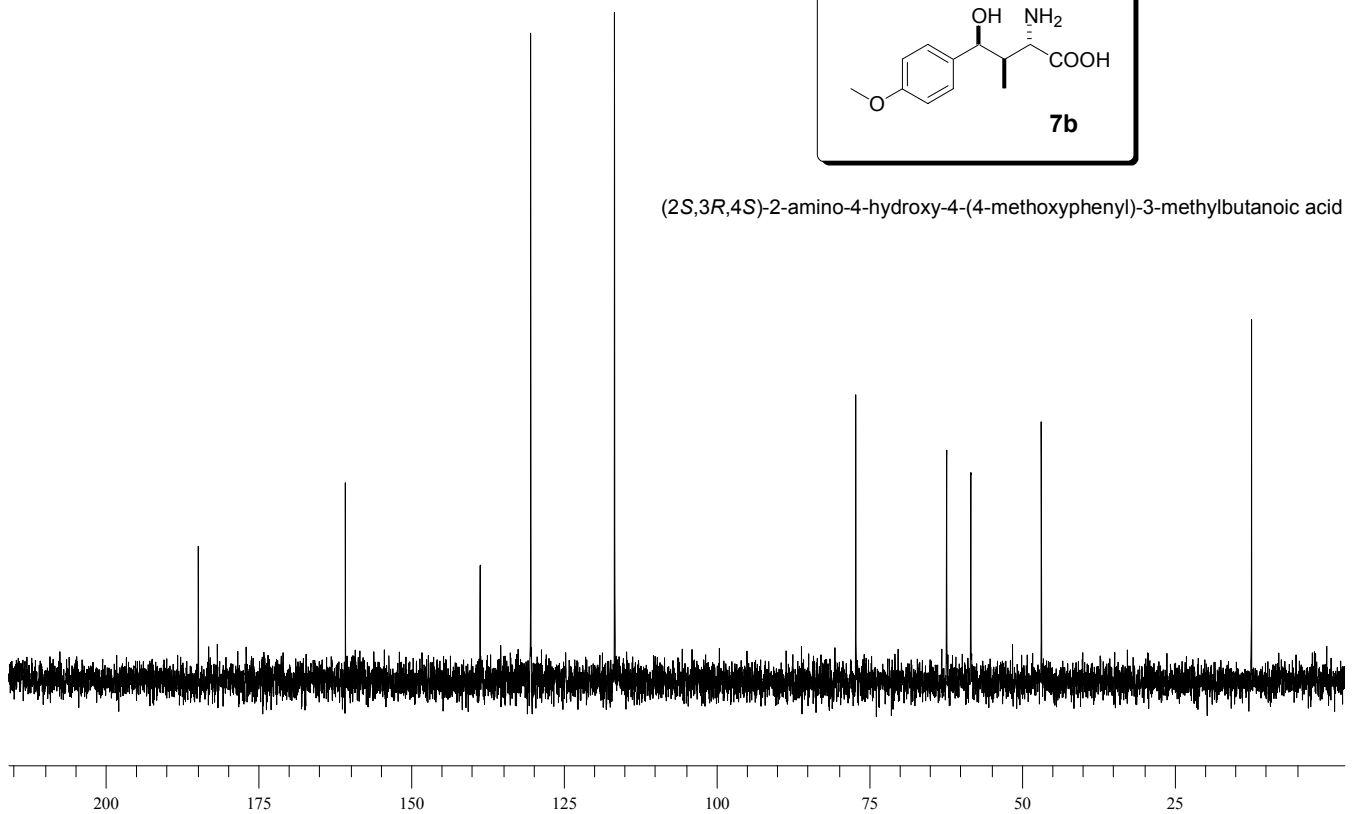
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DW 189

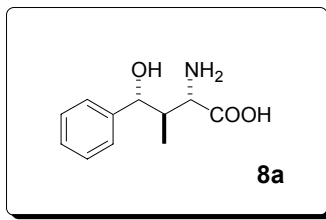


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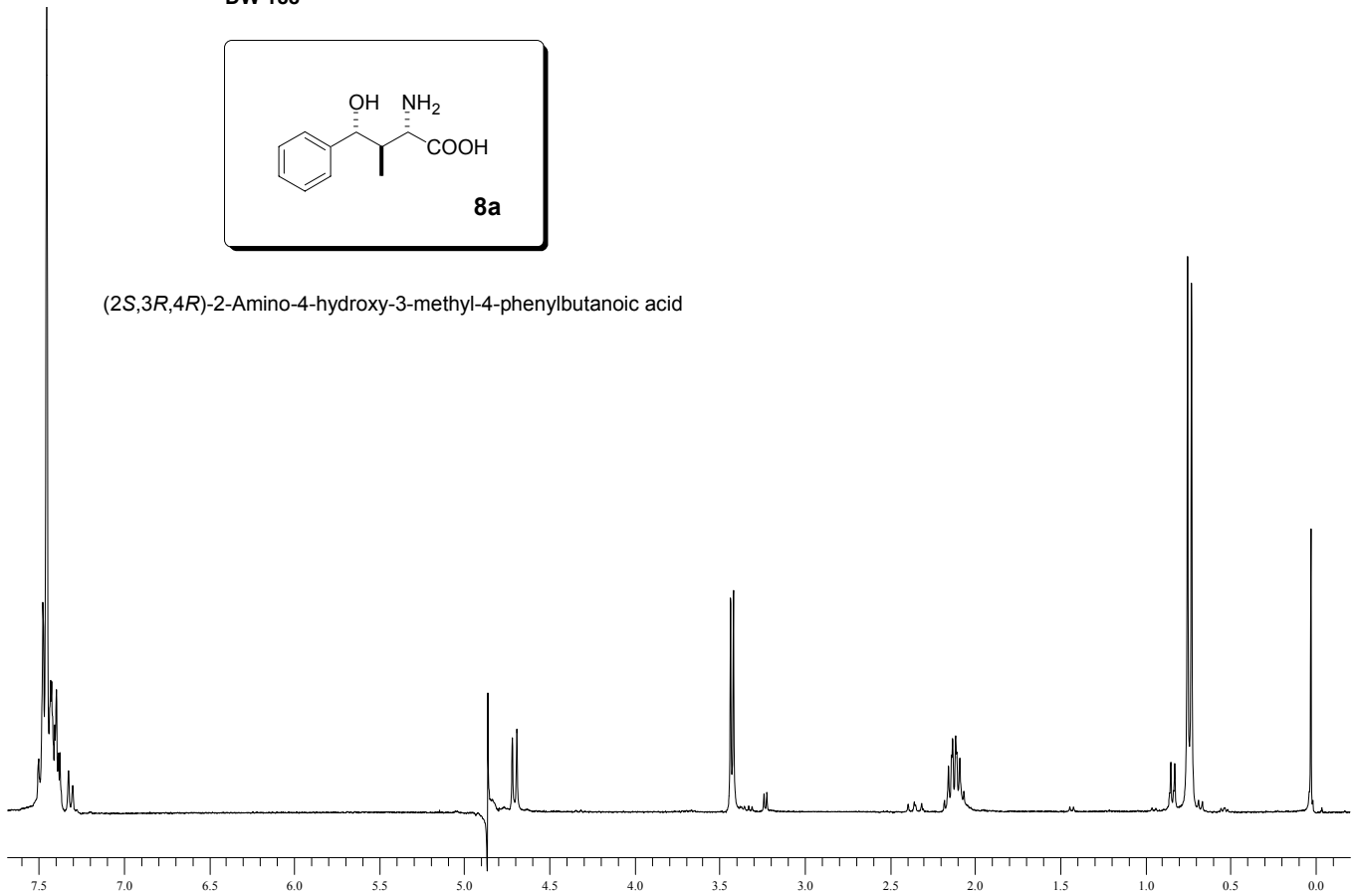




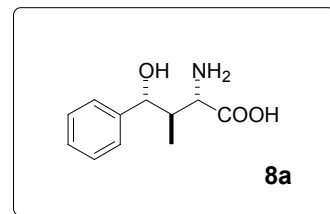
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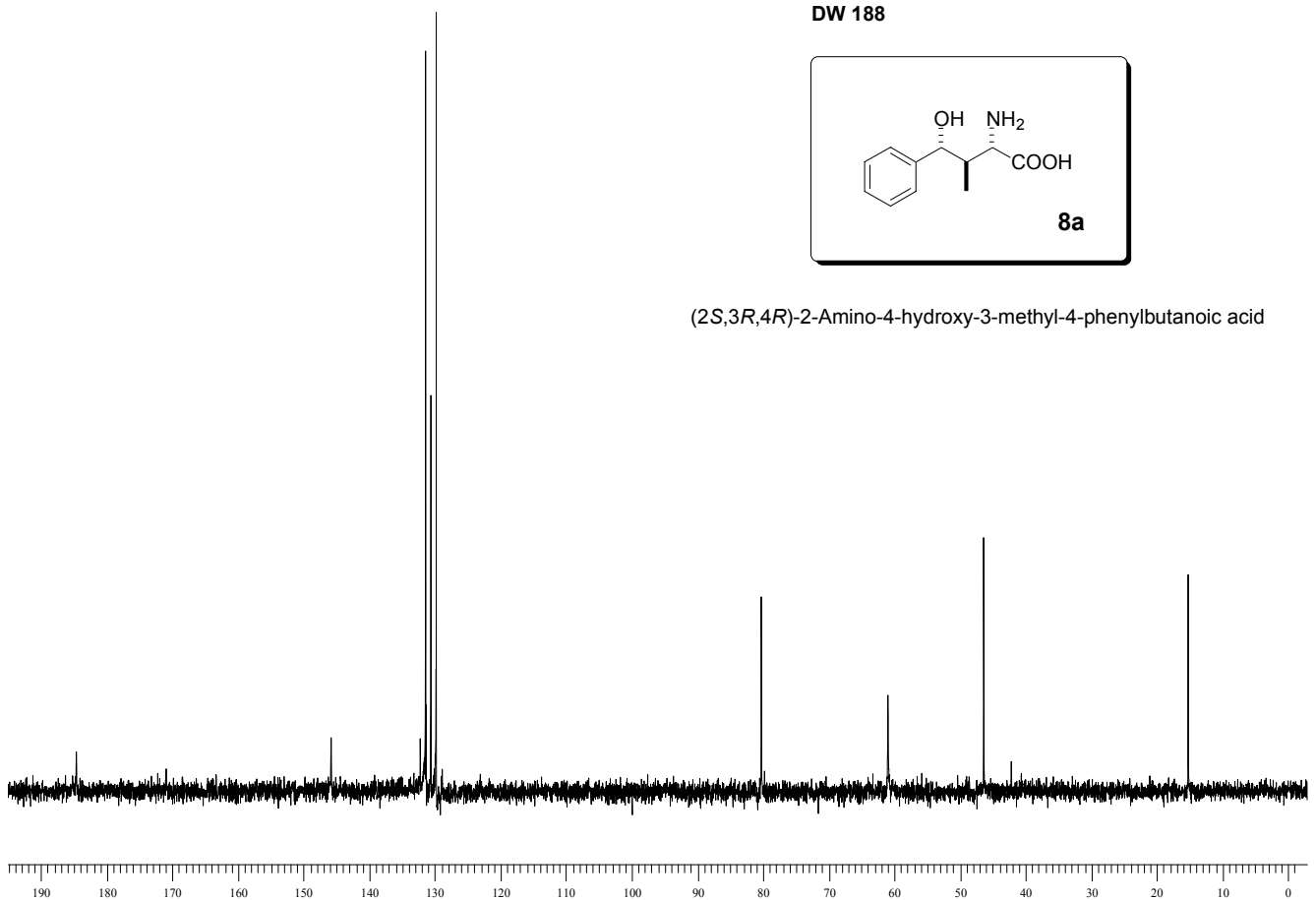
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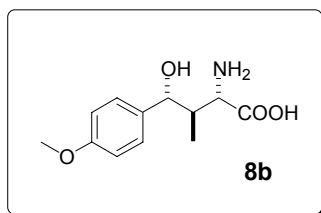
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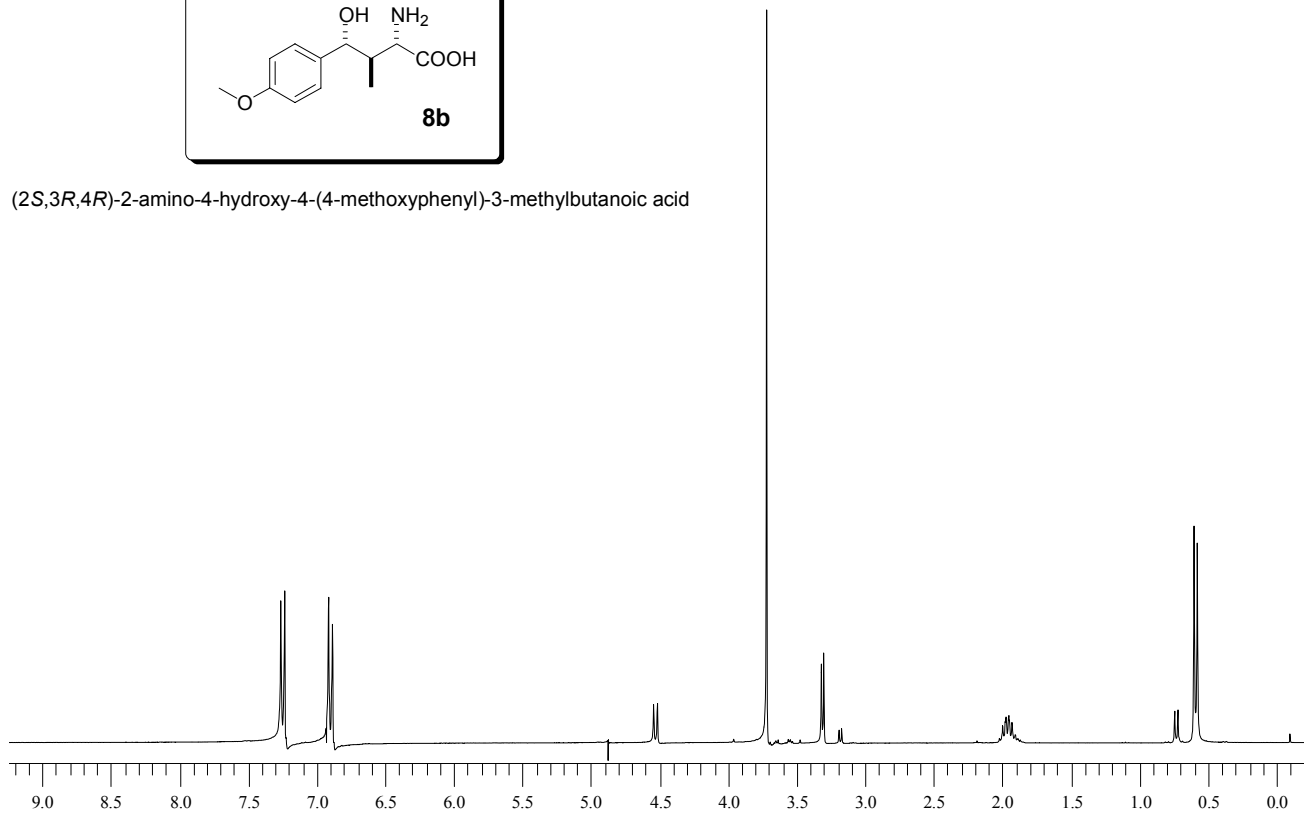
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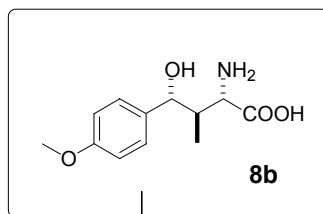
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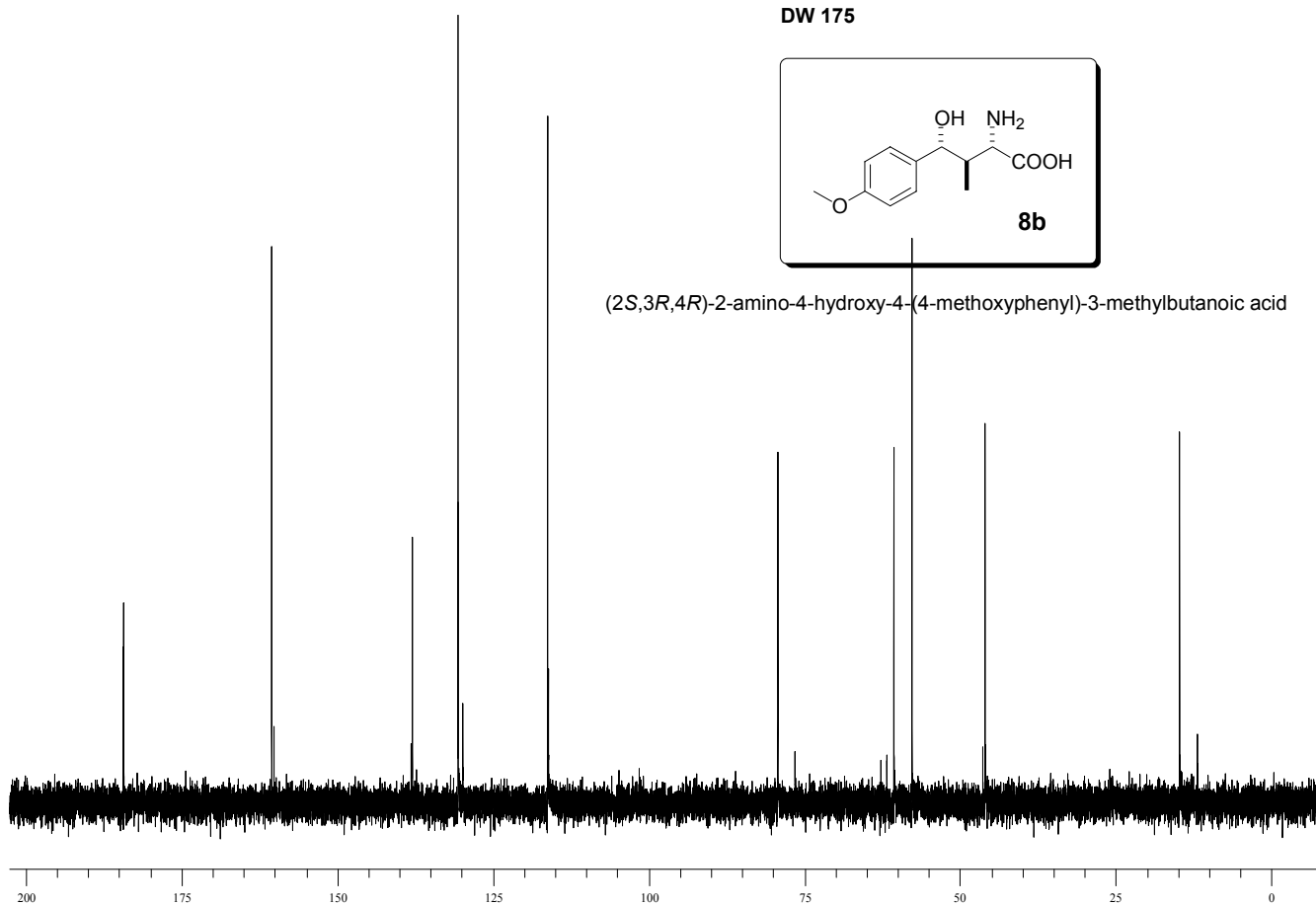
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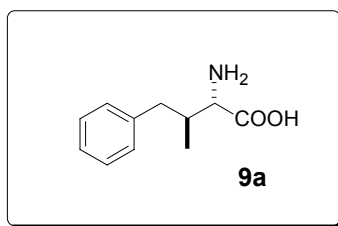
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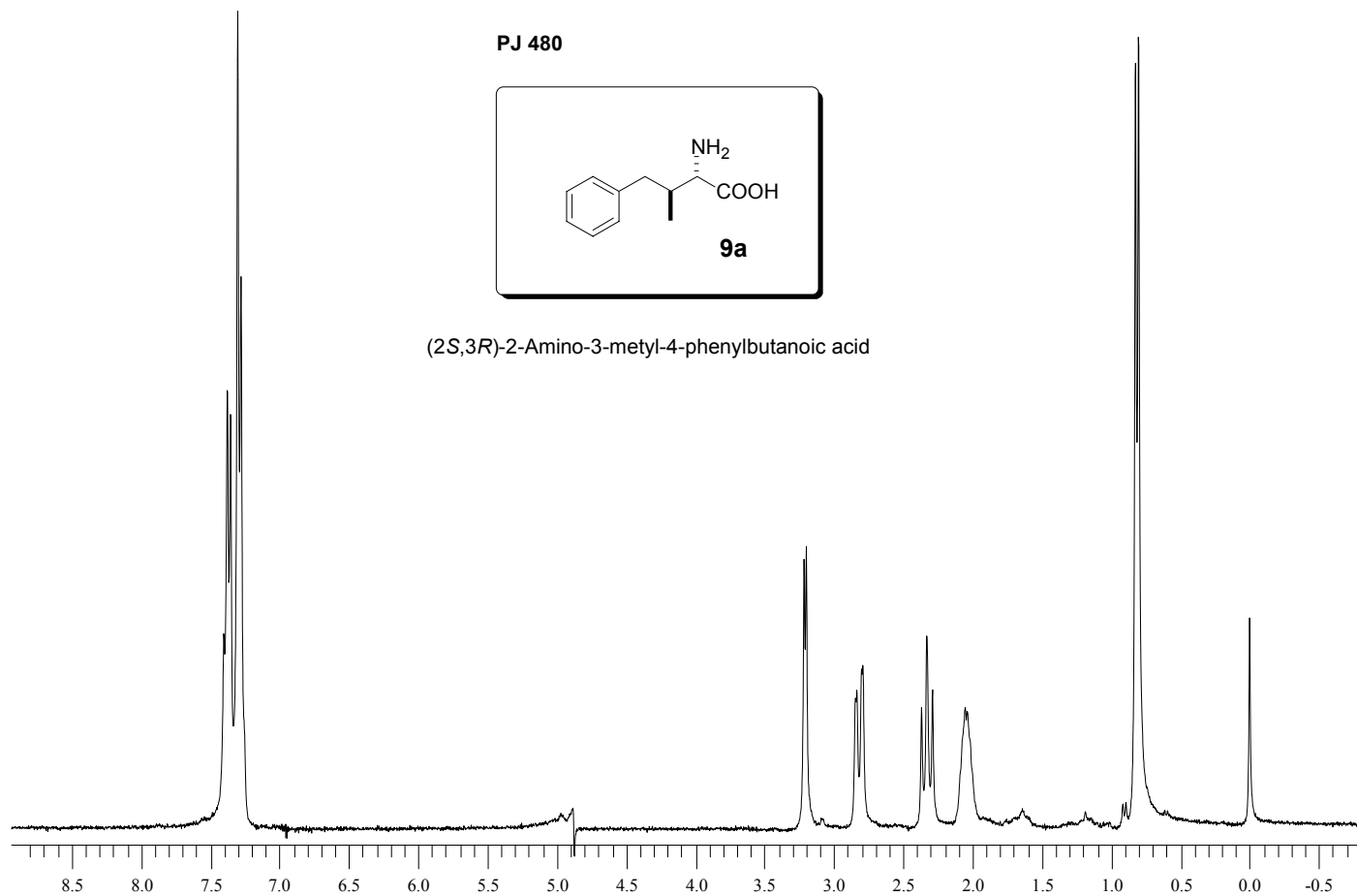
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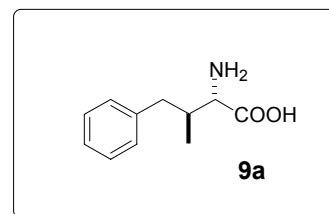
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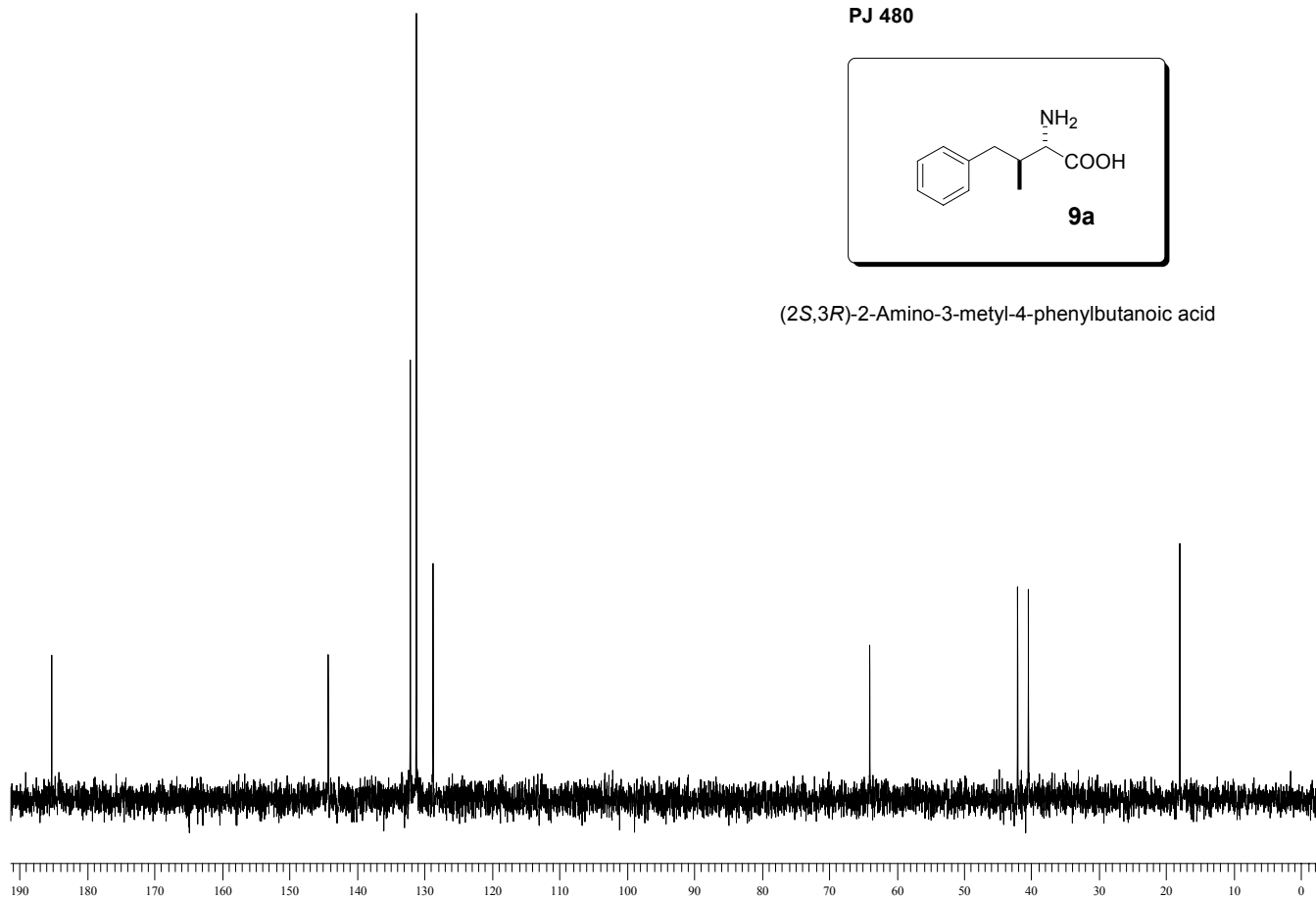
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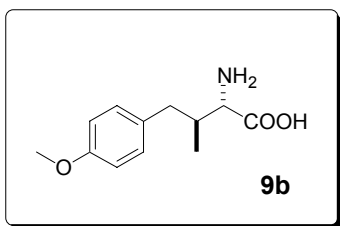
PJ 480



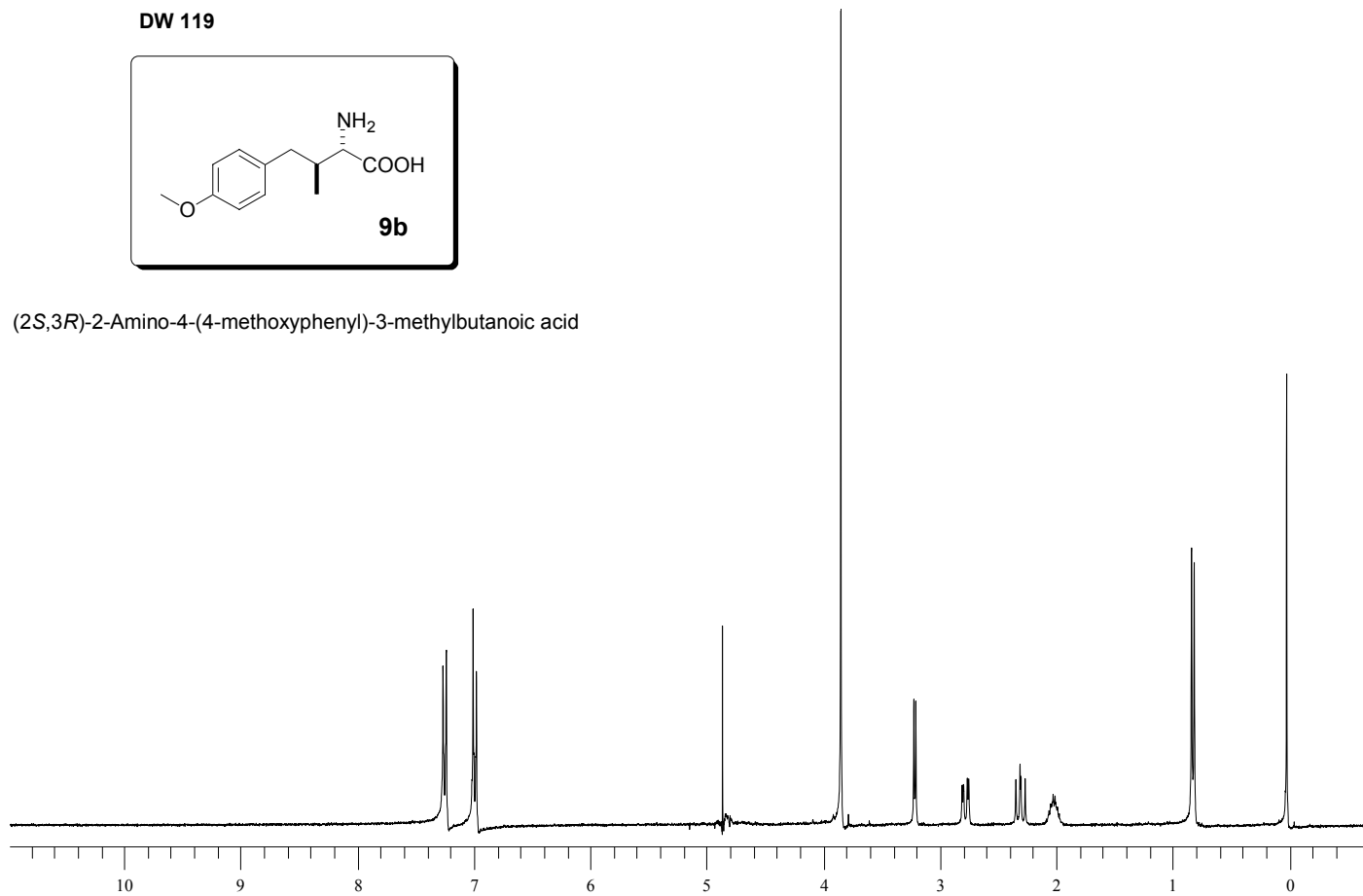
(2*S*,3*R*)-2-Amino-3-metyl-4-phenylbutanoic acid



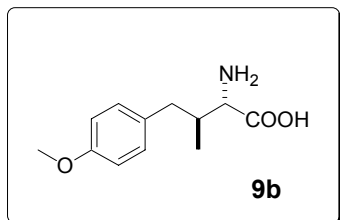
DW 119



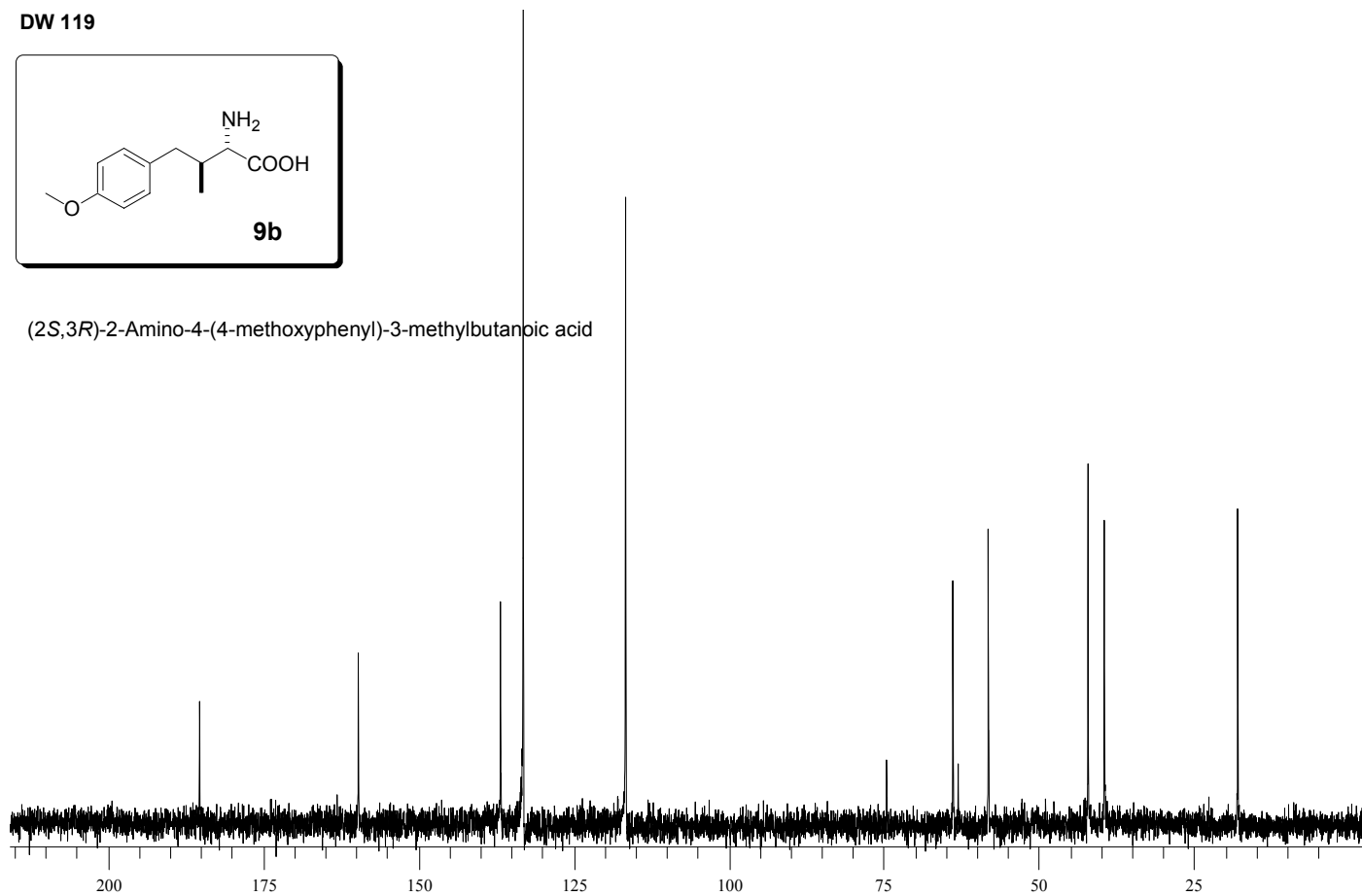
(2S,3R)-2-Amino-4-(4-methoxyphenyl)-3-methylbutanoic acid



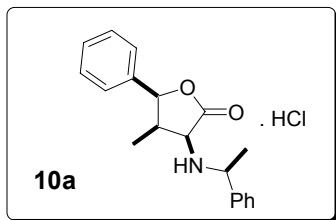
DW 119



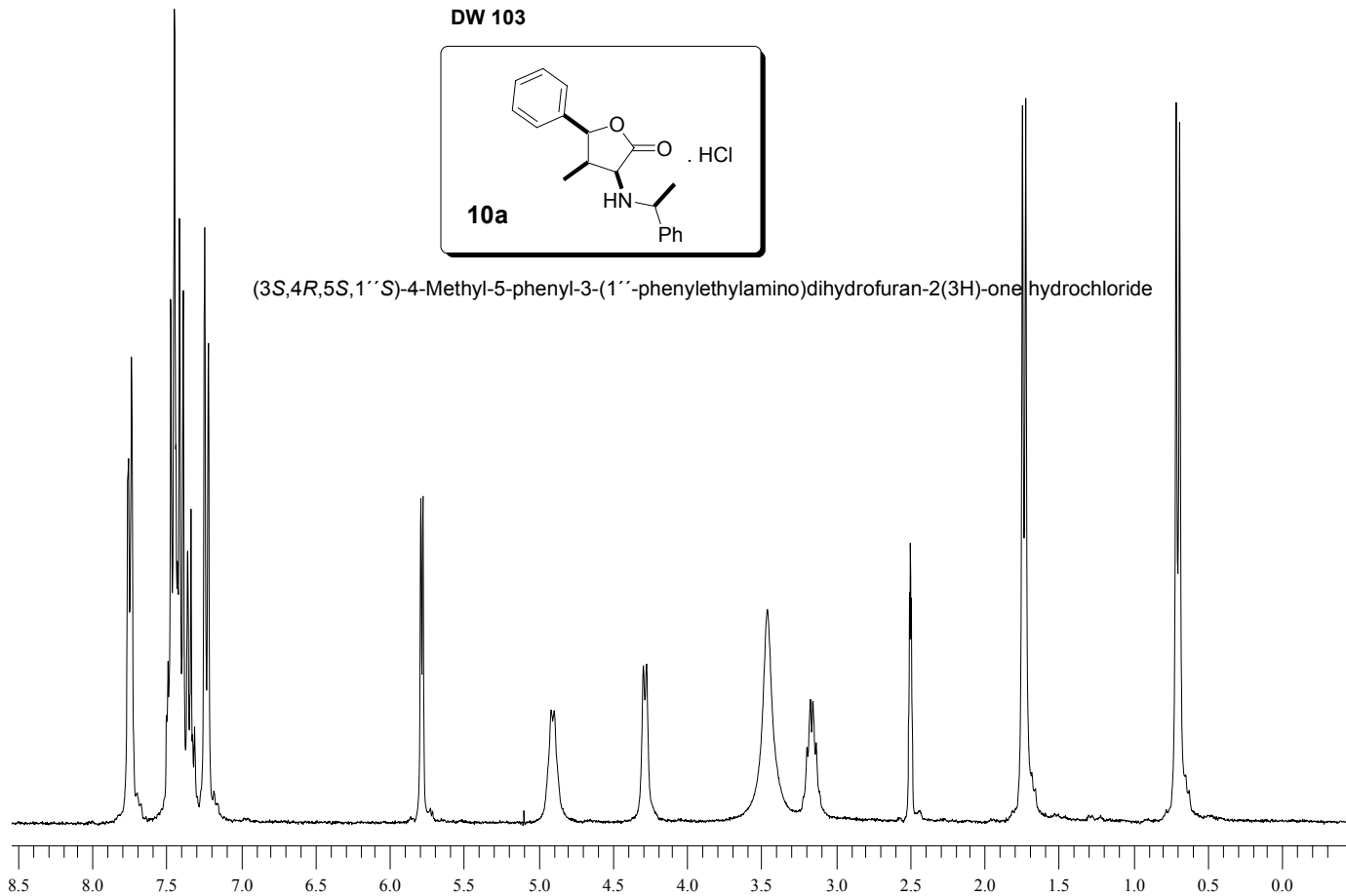
(2S,3R)-2-Amino-4-(4-methoxyphenyl)-3-methylbutanoic acid



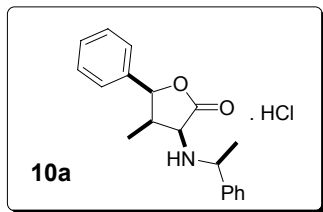
DW 103



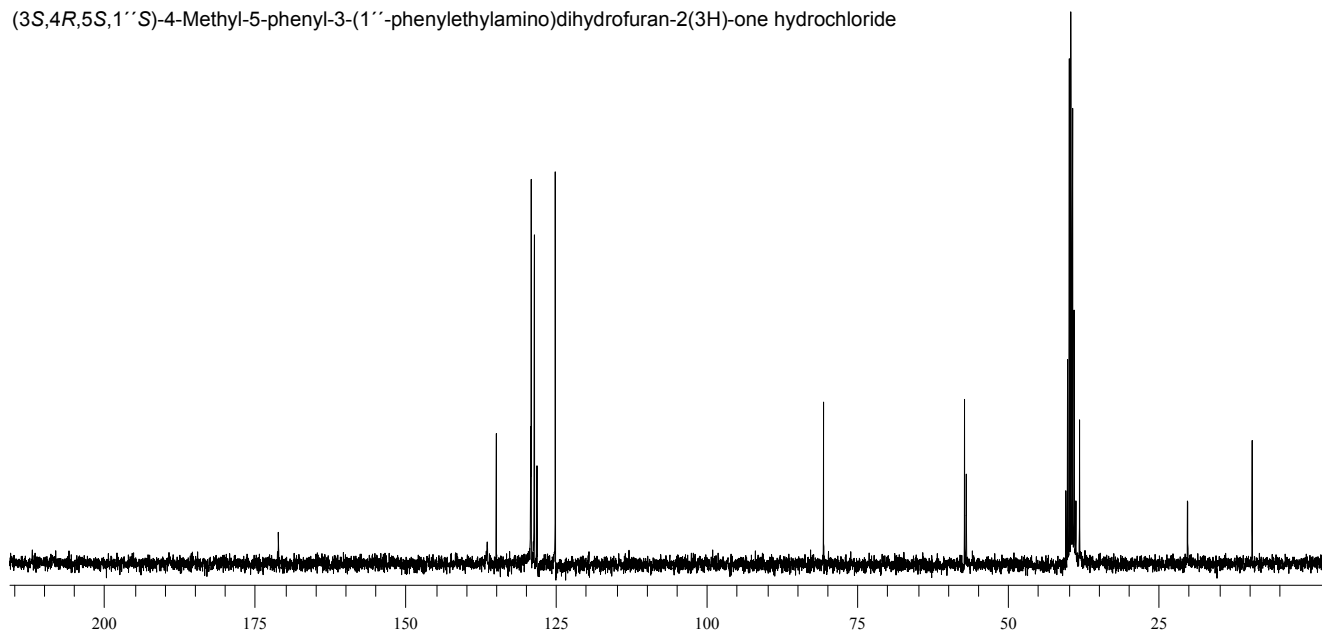
(3S,4R,5S,1''S)-4-Methyl-5-phenyl-3-(1''-phenylethylamino) dihydrofuran-2(3H)-one hydrochloride



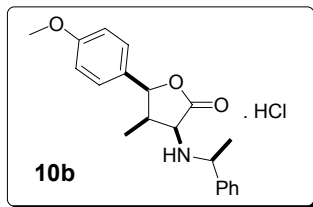
DW 103



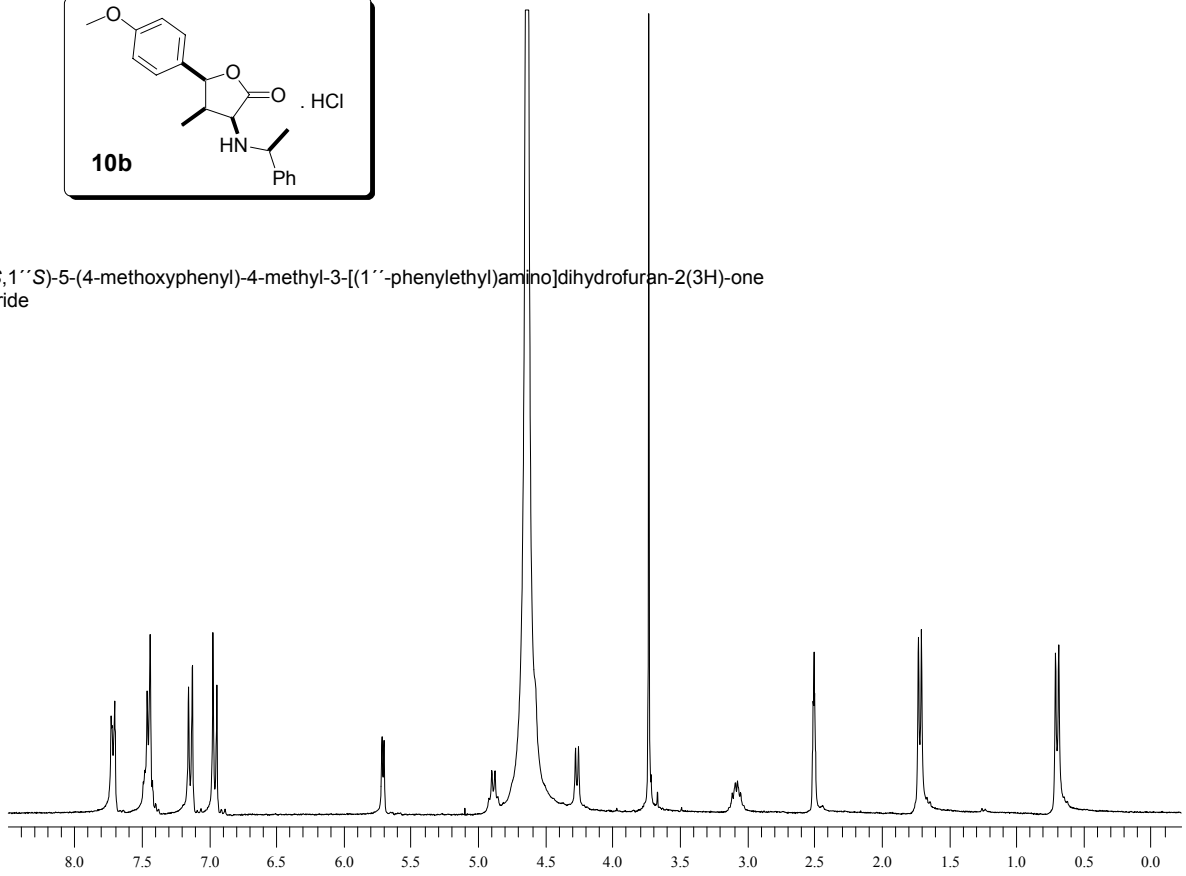
(3S,4R,5S,1''S)-4-Methyl-5-phenyl-3-(1''-phenylethylamino) dihydrofuran-2(3H)-one hydrochloride



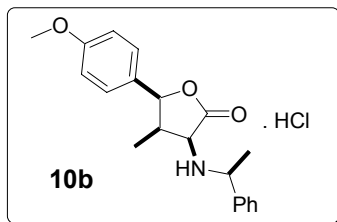
DW 95



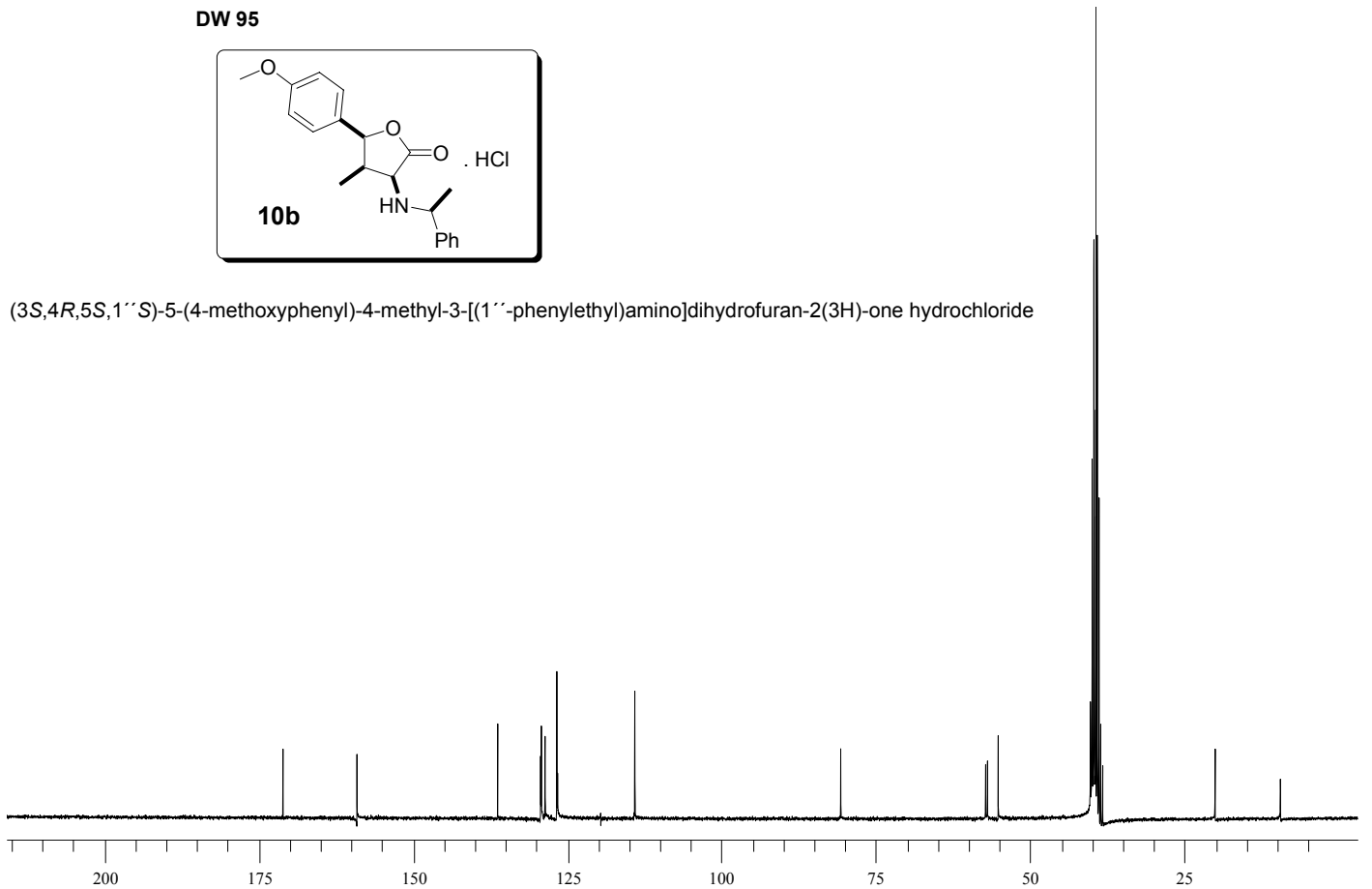
(3S,4R,5S,1''S)-5-(4-methoxyphenyl)-4-methyl-3-[(1''-phenylethyl)amino]dihydrofuran-2(3H)-one hydrochloride



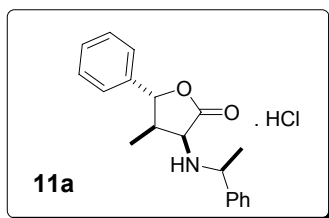
DW 95



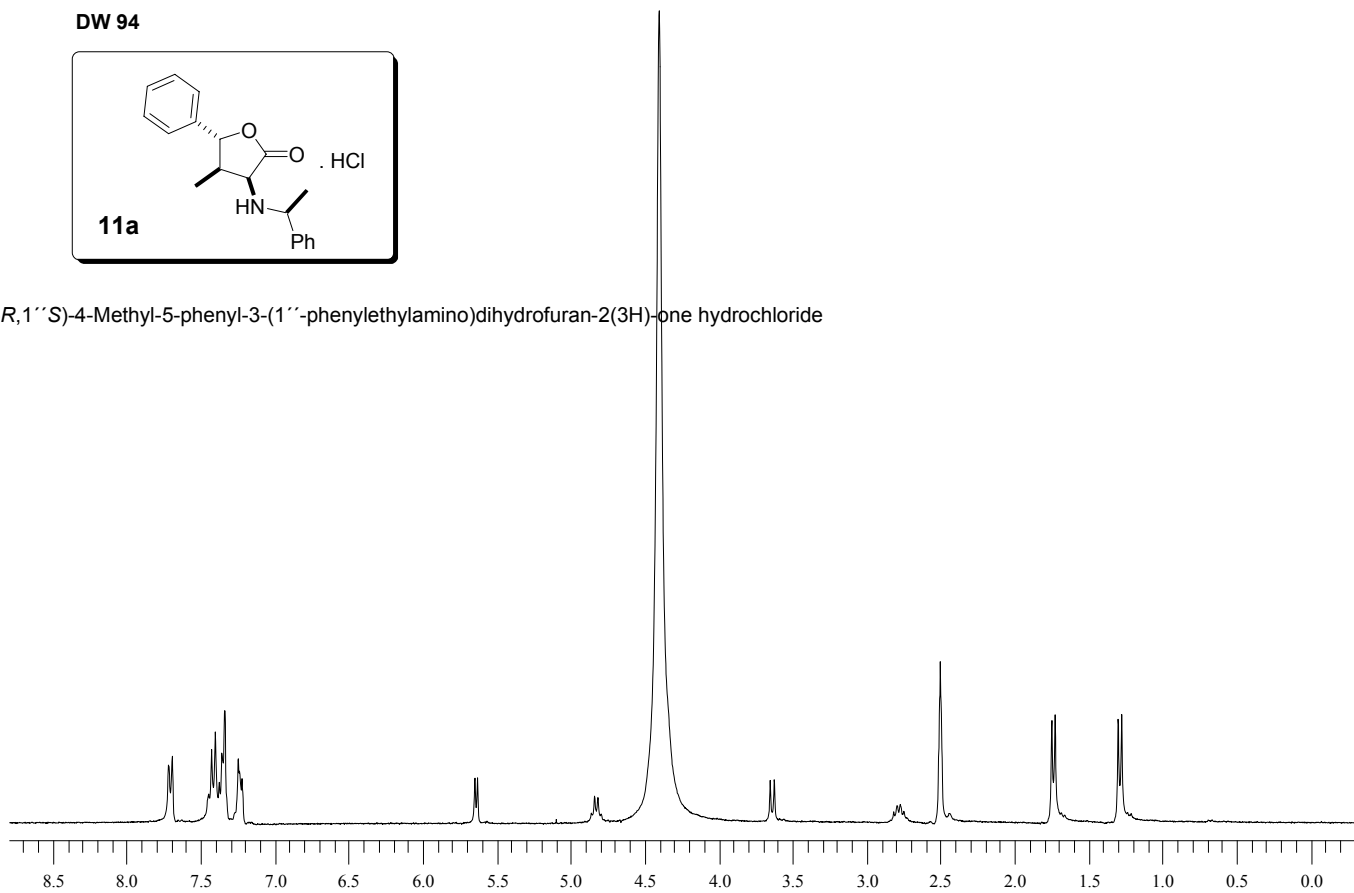
(3S,4R,5S,1''S)-5-(4-methoxyphenyl)-4-methyl-3-[(1''-phenylethyl)amino]dihydrofuran-2(3H)-one hydrochloride



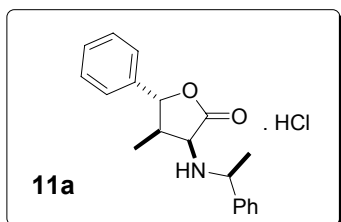
DW 94



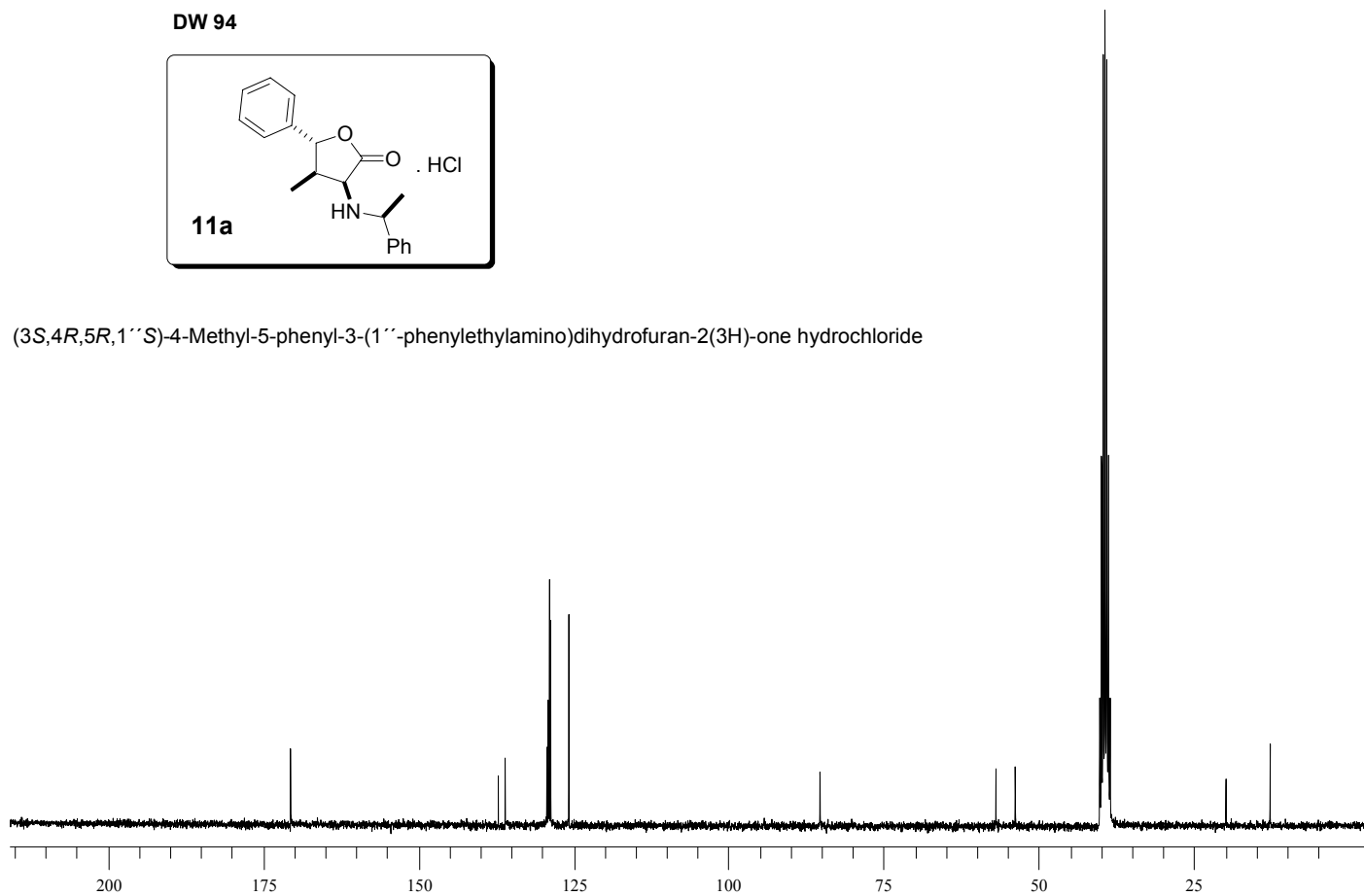
(3S,4R,5R,1''S)-4-Methyl-5-phenyl-3-(1''-phenylethylamino)dihydrofuran-2(3H)-one hydrochloride



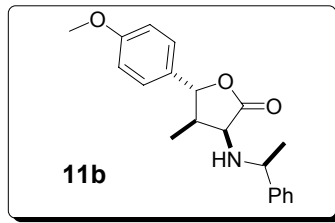
DW 94



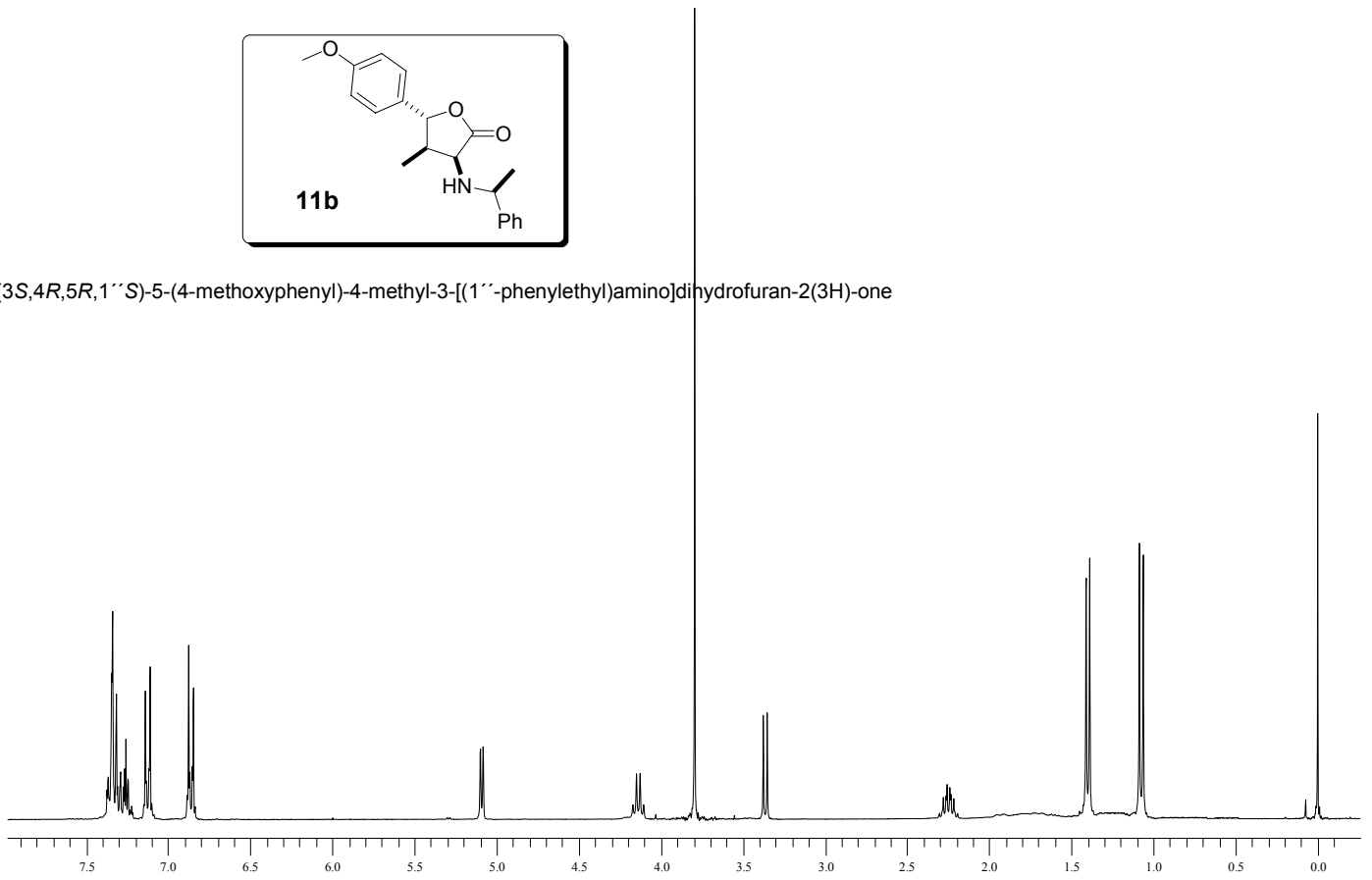
(3S,4R,5R,1''S)-4-Methyl-5-phenyl-3-(1''-phenylethylamino)dihydrofuran-2(3H)-one hydrochloride



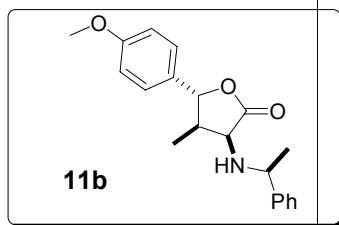
PJ 1024



(3S,4R,5R,1''S)-5-(4-methoxyphenyl)-4-methyl-3-[(1''-phenylethyl)amino]dihydrofuran-2(3H)-one



PJ 1024



(3S,4R,5R,1''S)-5-(4-methoxyphenyl)-4-methyl-3-[(1''-phenylethyl)amino]dihydrofuran-2(3H)-one

