

Support information

New 1E,1'E-hydrazine-bis(phenoxy-1,2,3-triazol-acetamide) derivatives as potent inhibitors against acetylcholinesterase, butyrylcholinesterase, and α -glucosidase

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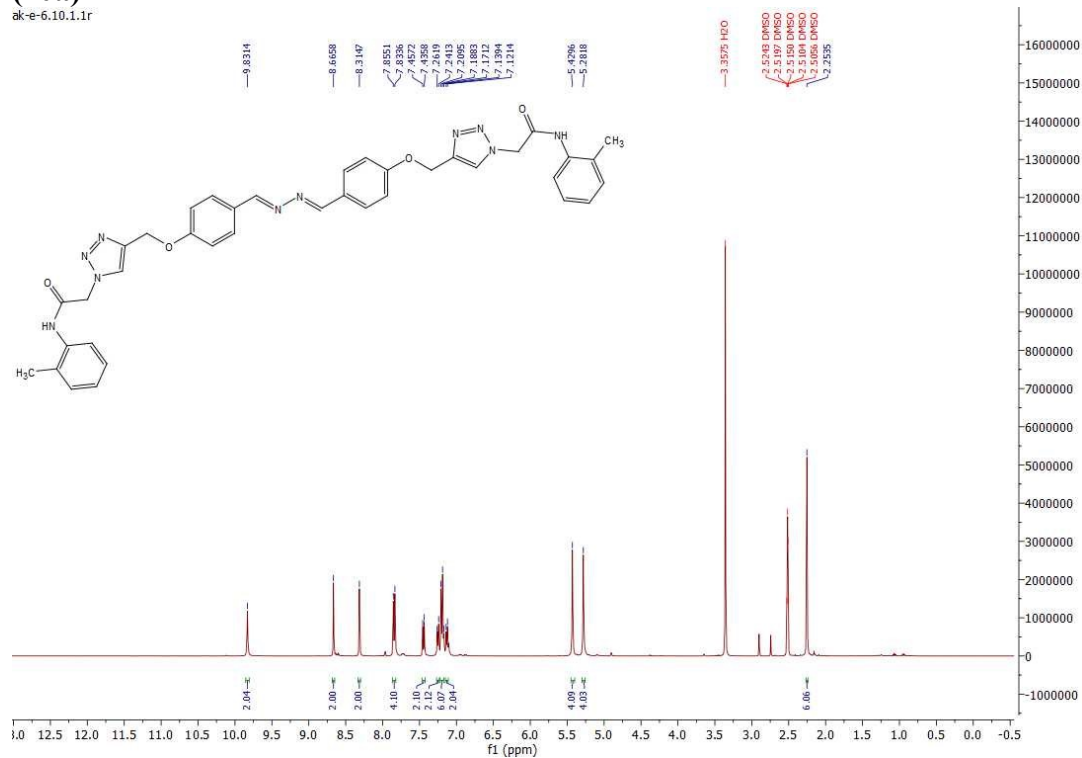
† These authors contributed equally to this work.

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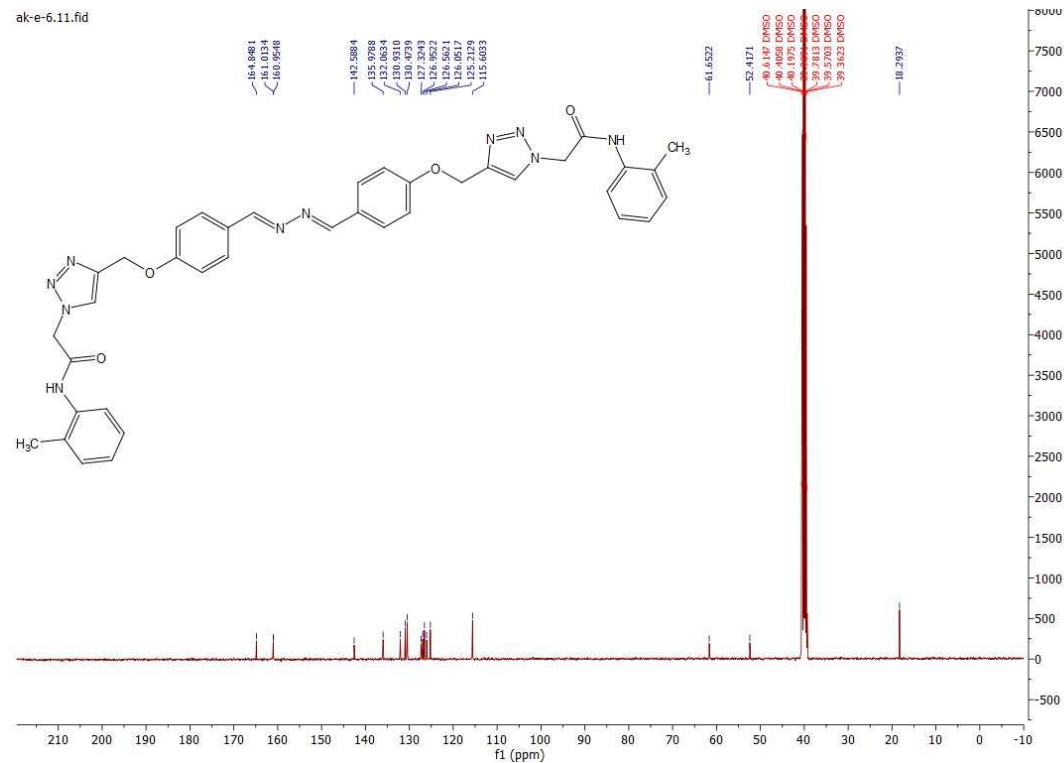
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2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(o-tolyl)acetamide) (10a)

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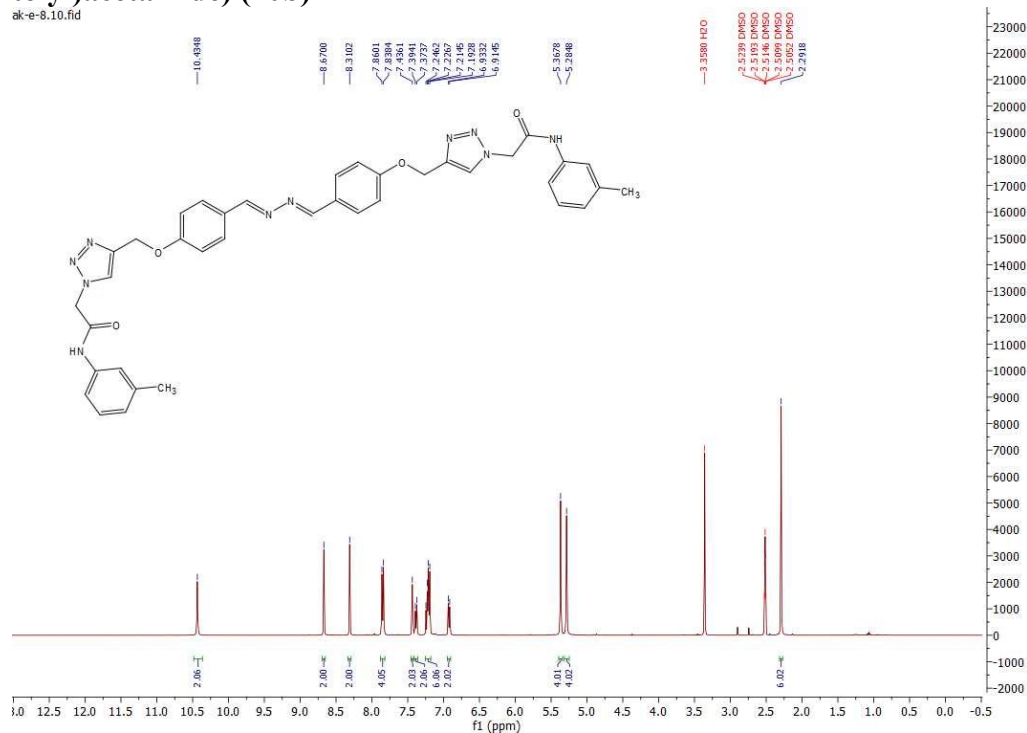


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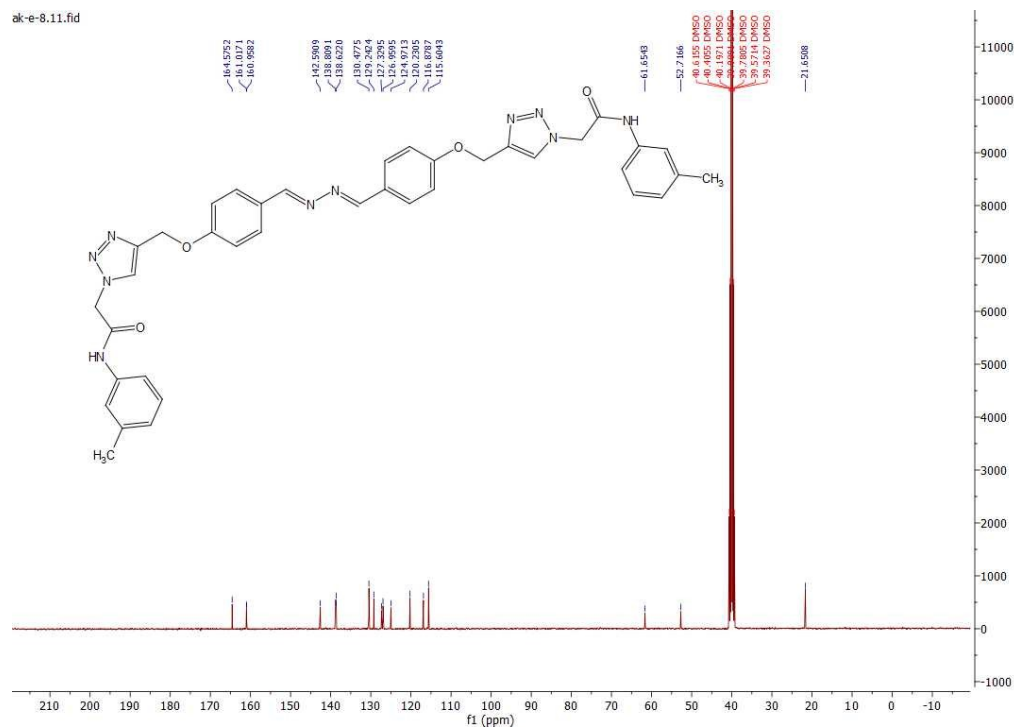


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(m-tolyl)acetamide) (10b)

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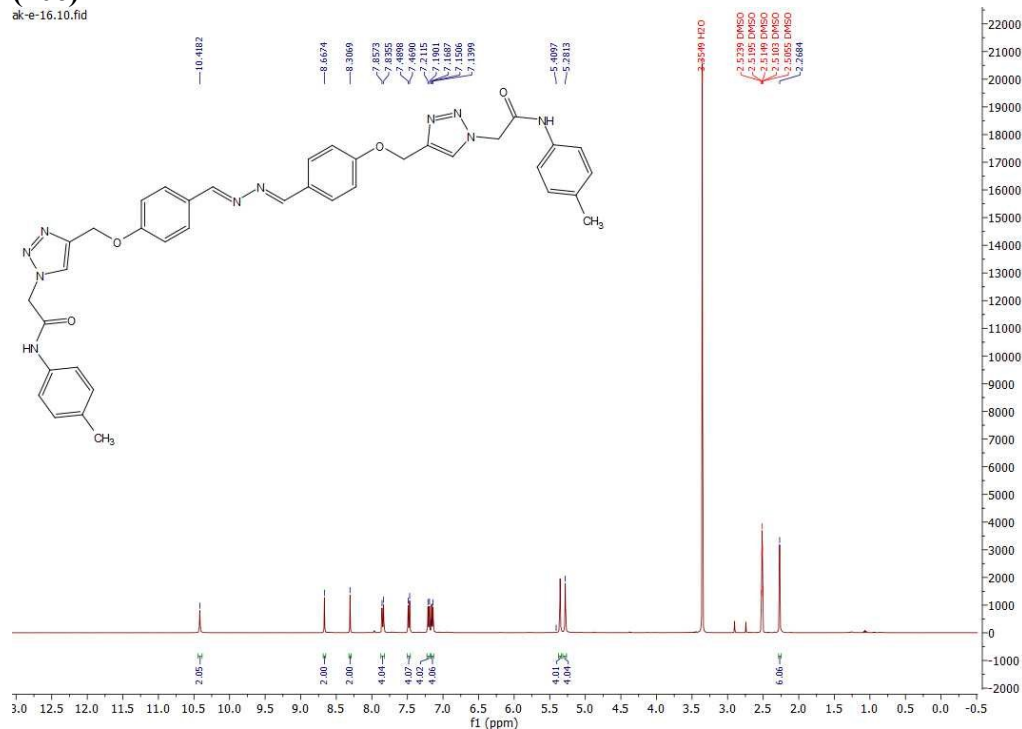


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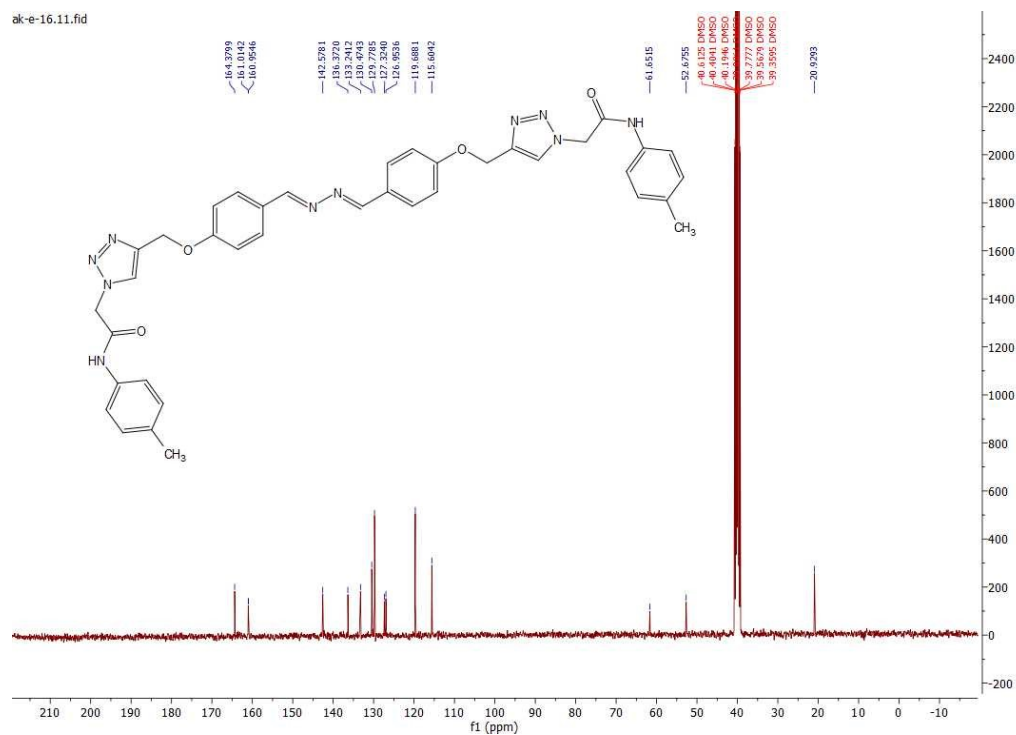


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(p-tolyl)acetamide) (10c)

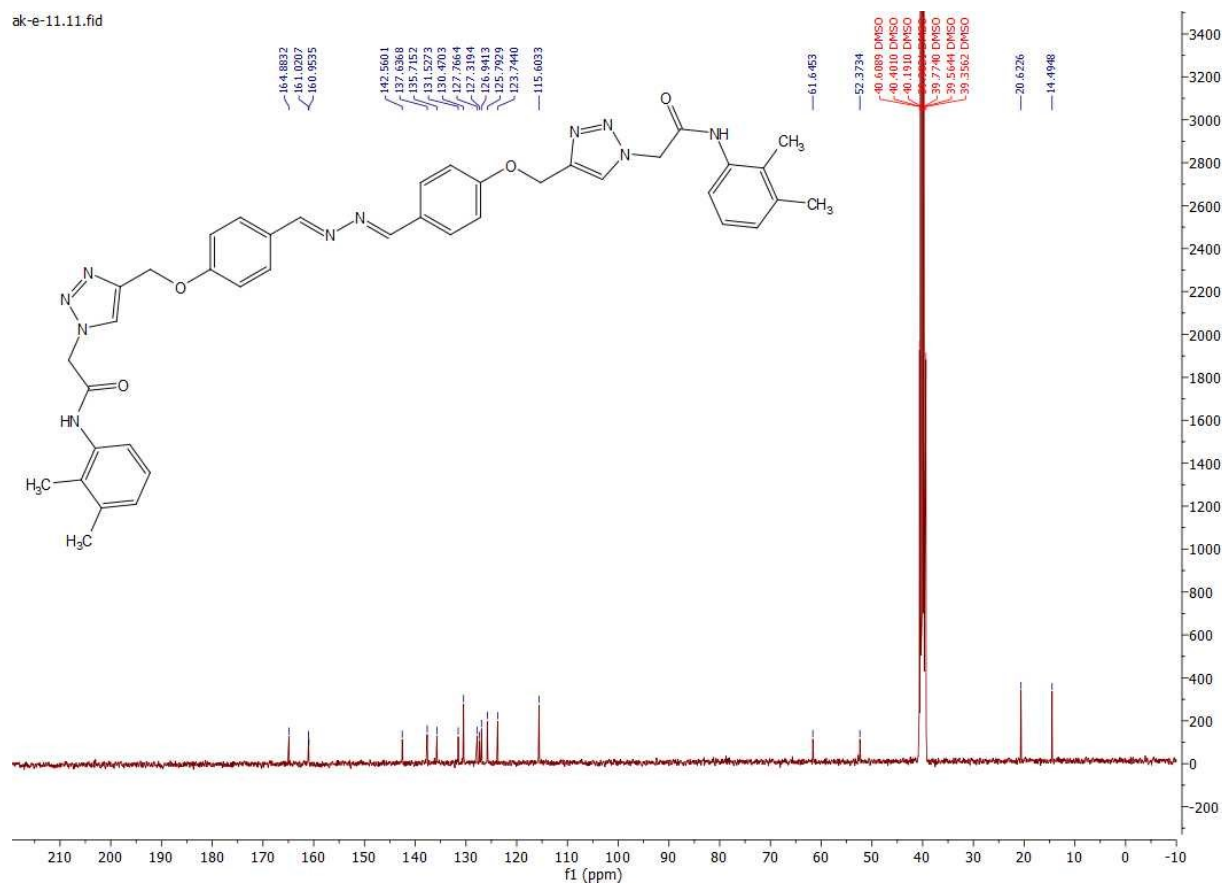
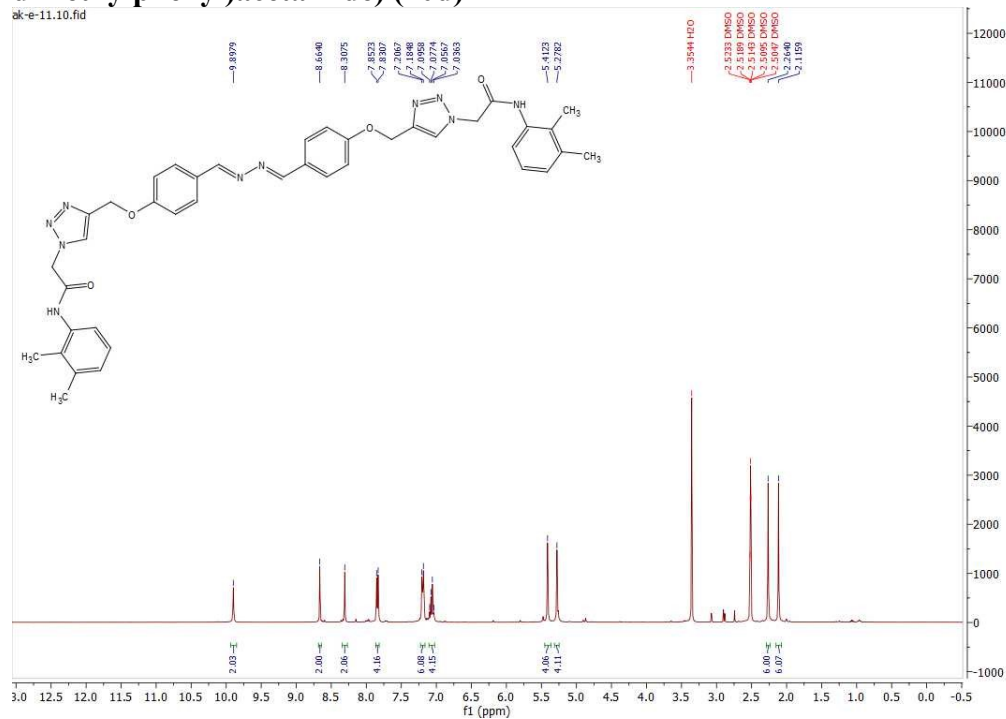
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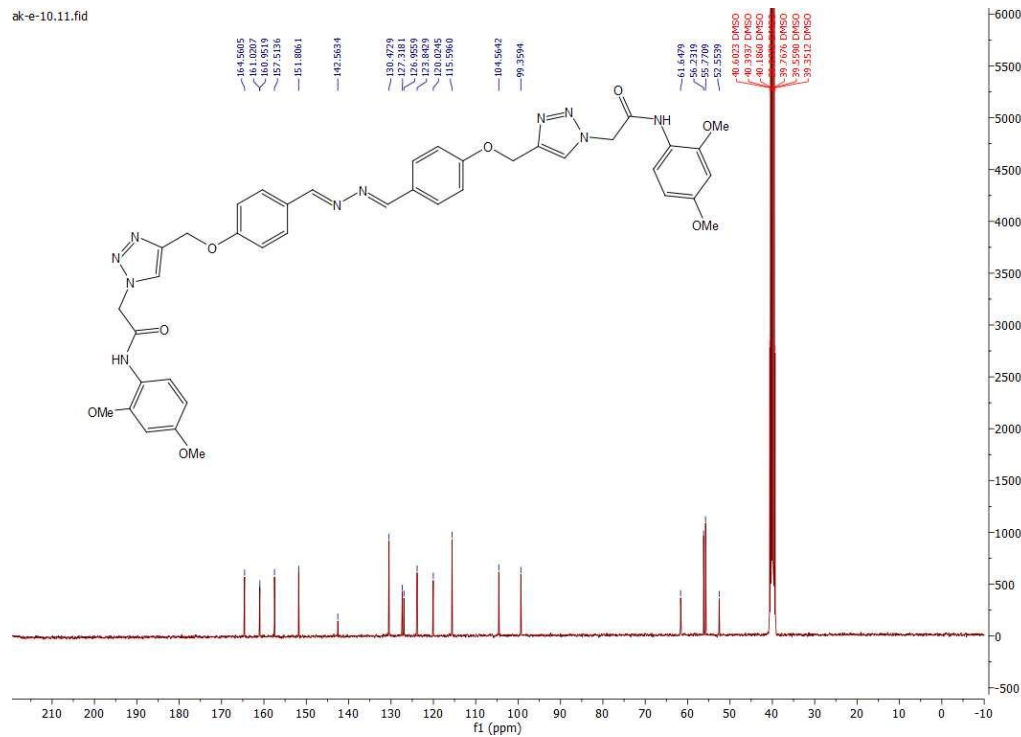
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2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(2,3-dimethylphenyl)acetamide) (10d)

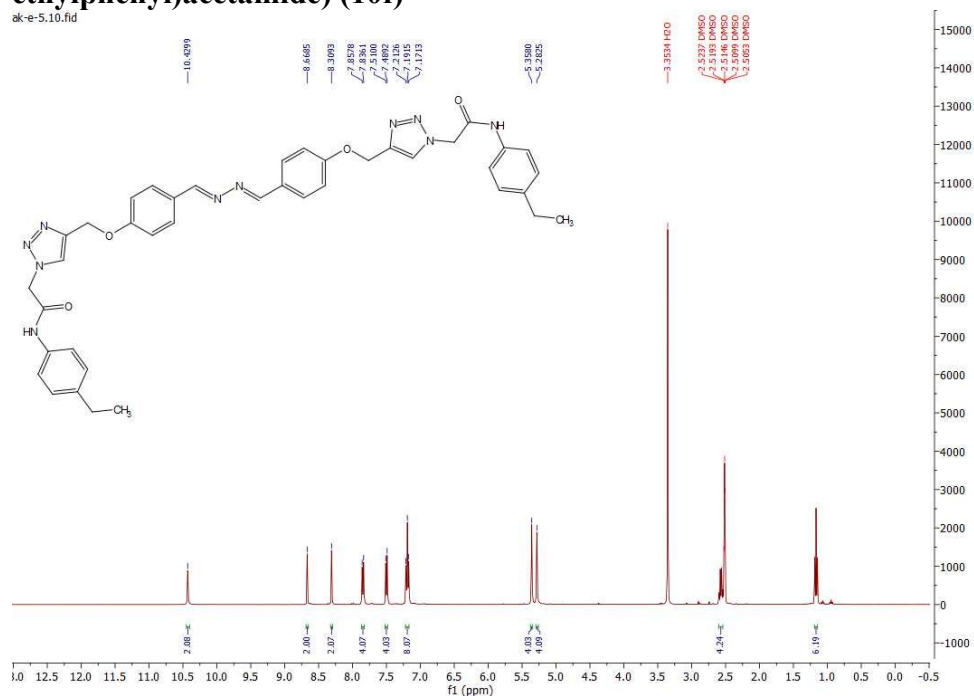


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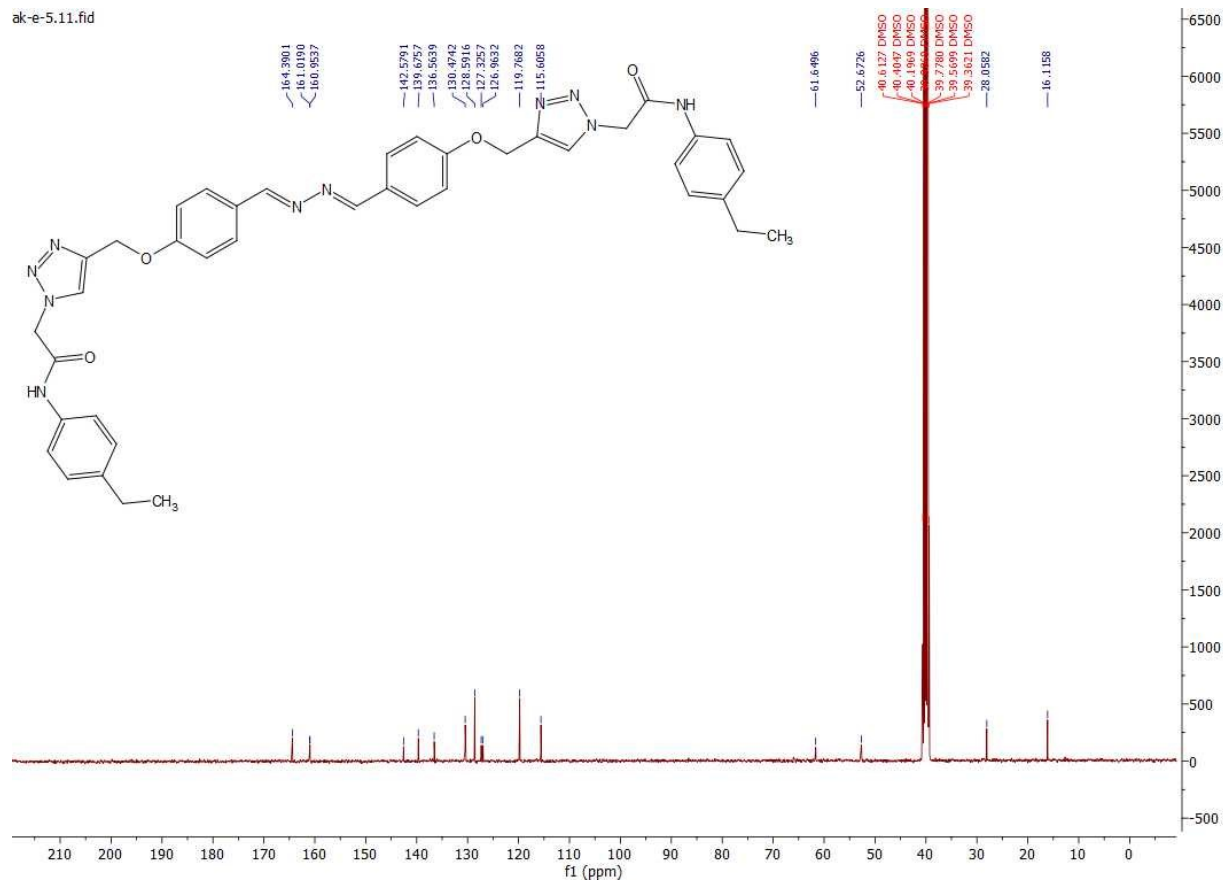


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(4-ethylphenyl)acetamide) (10f)

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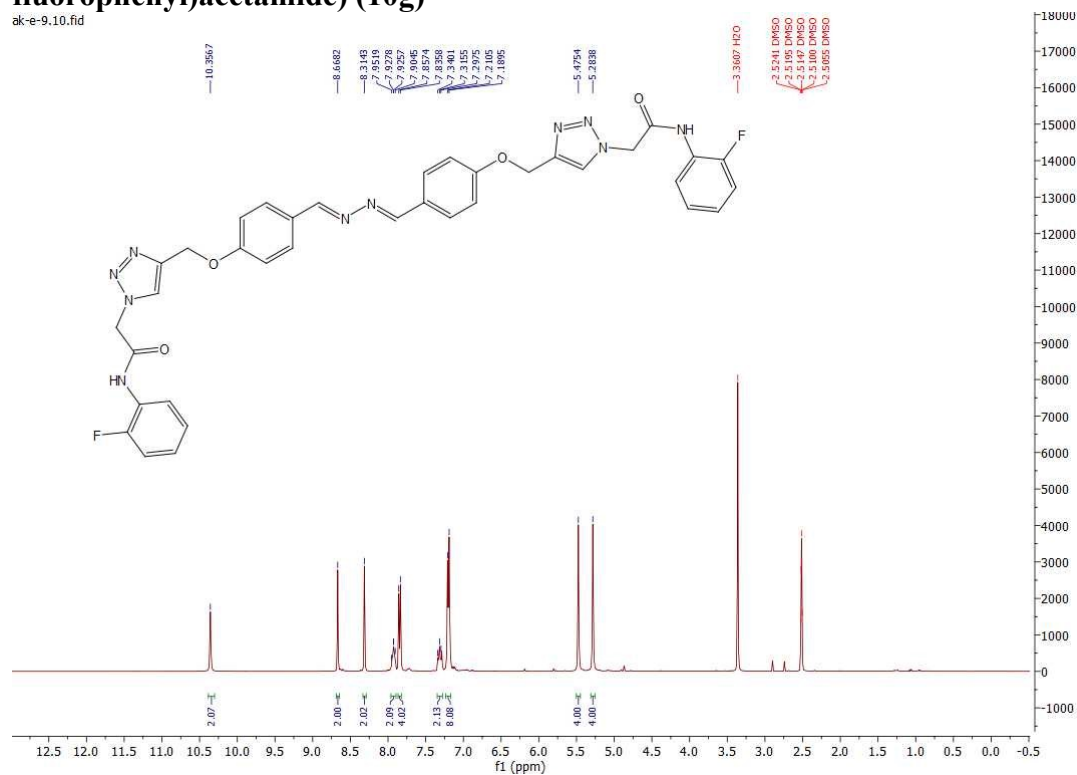


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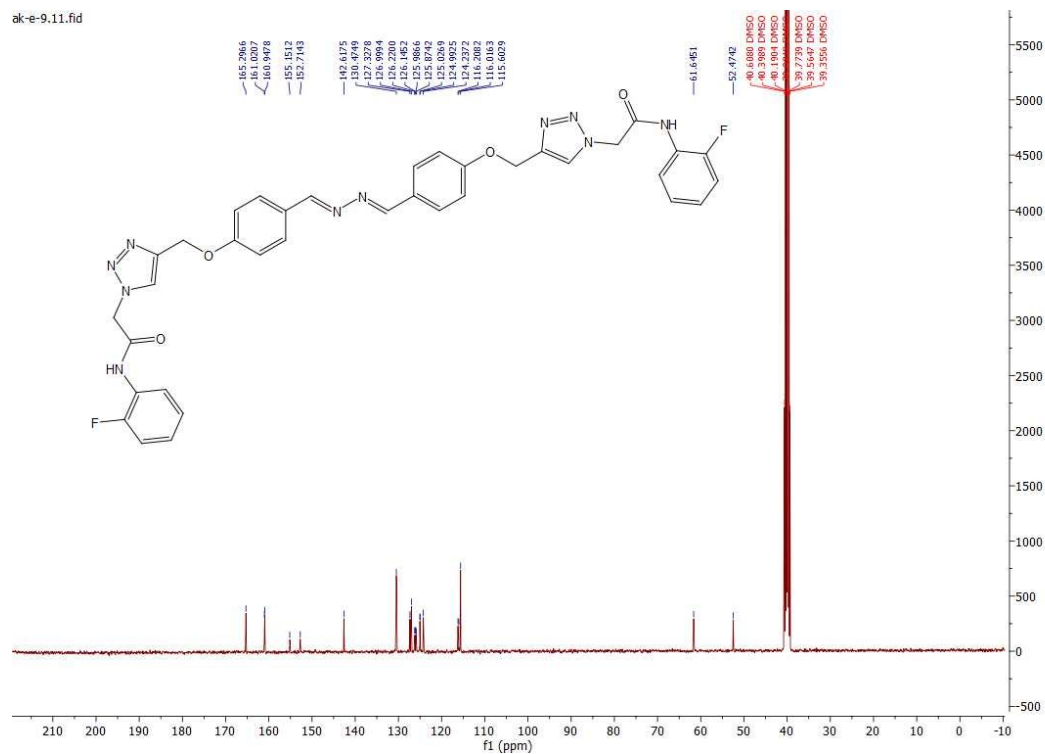


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(2-fluorophenyl)acetamide) (10g)

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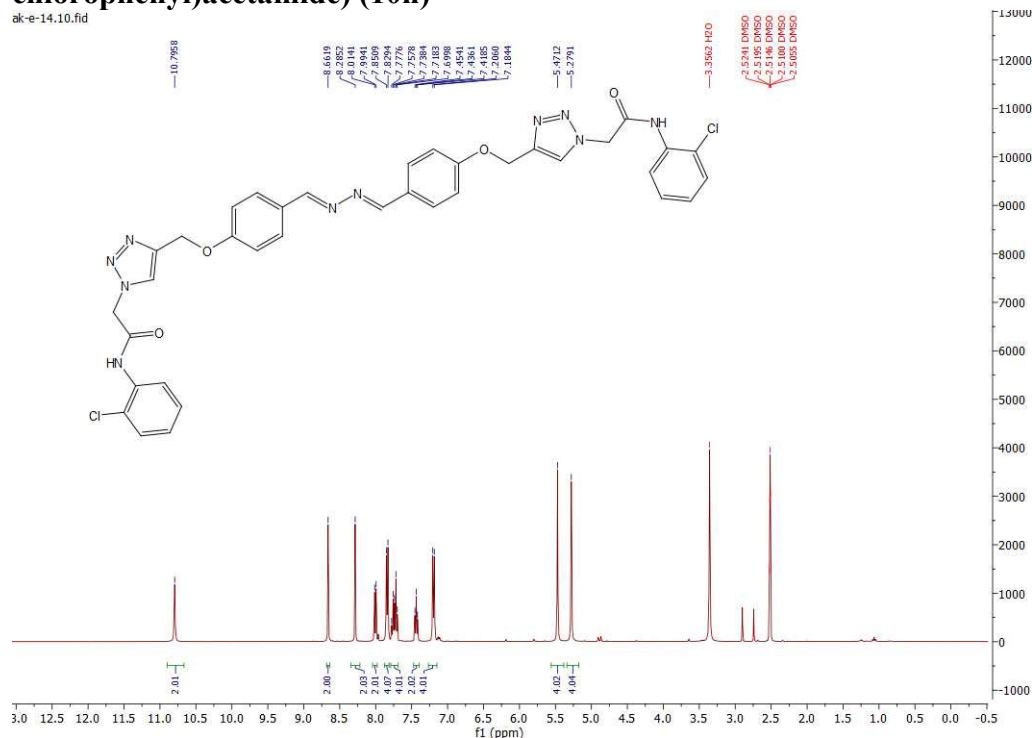


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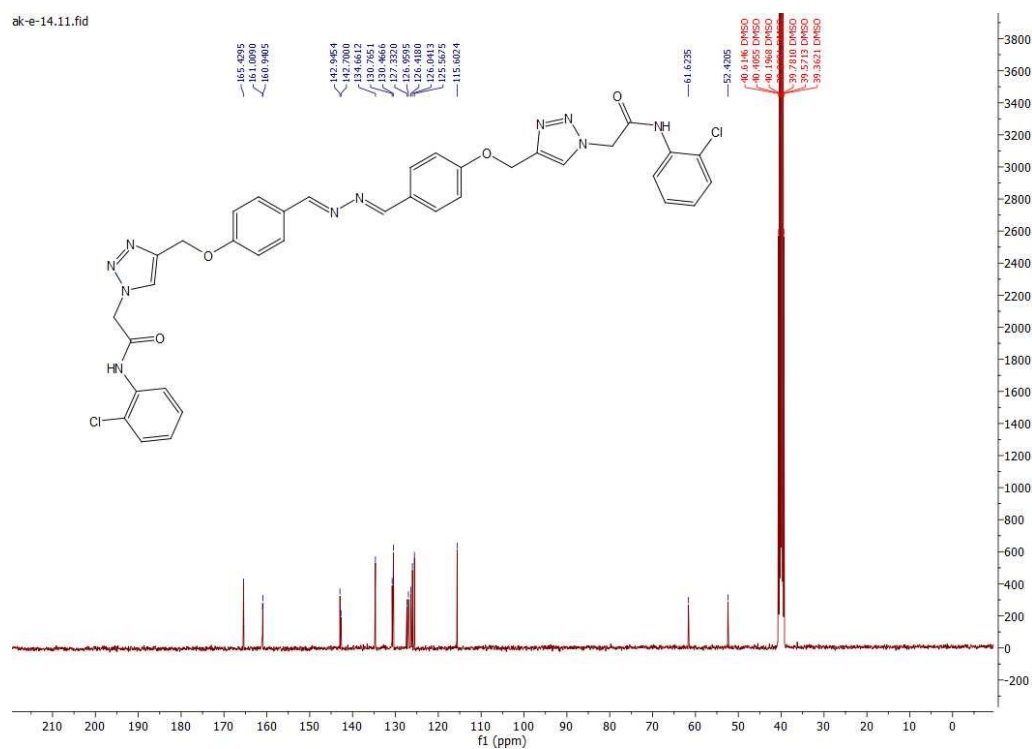


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(2-chlorophenyl)acetamide) (10h)

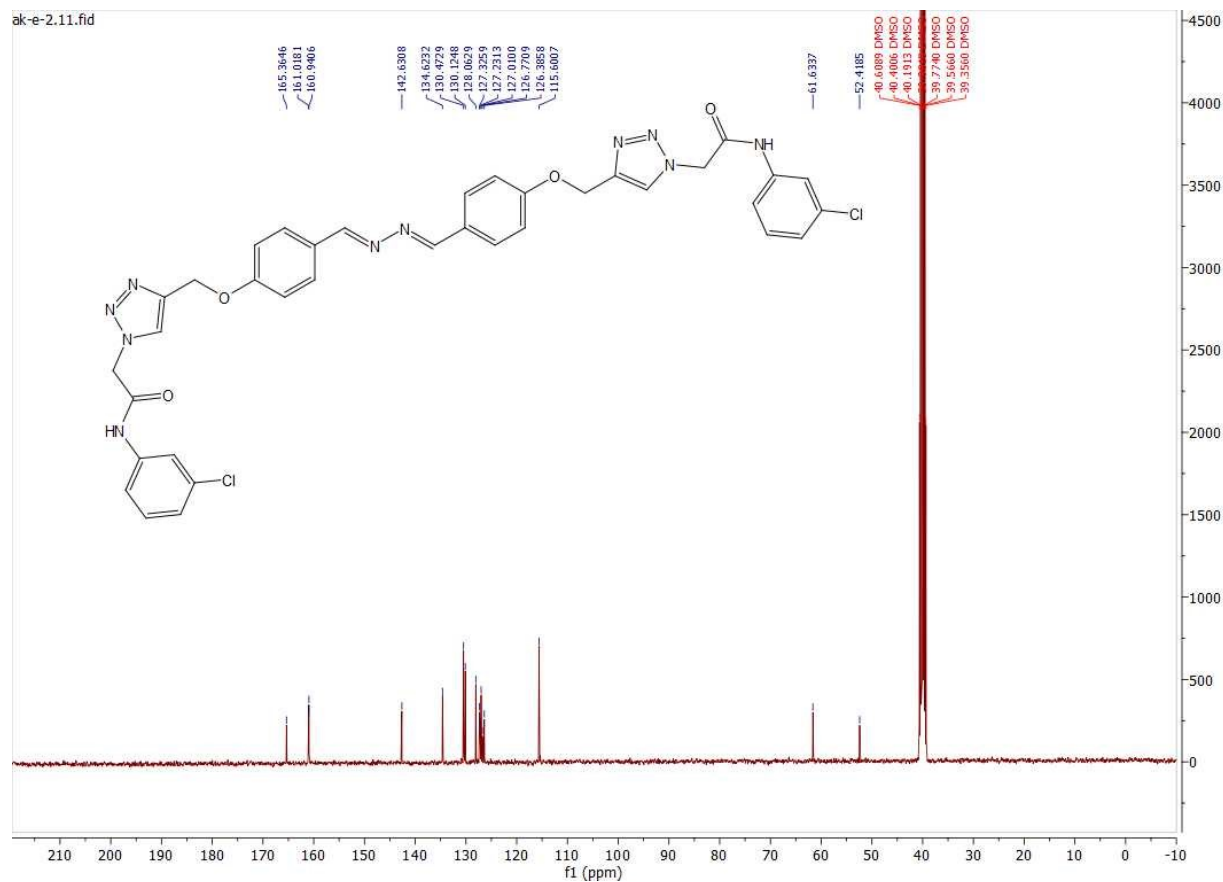
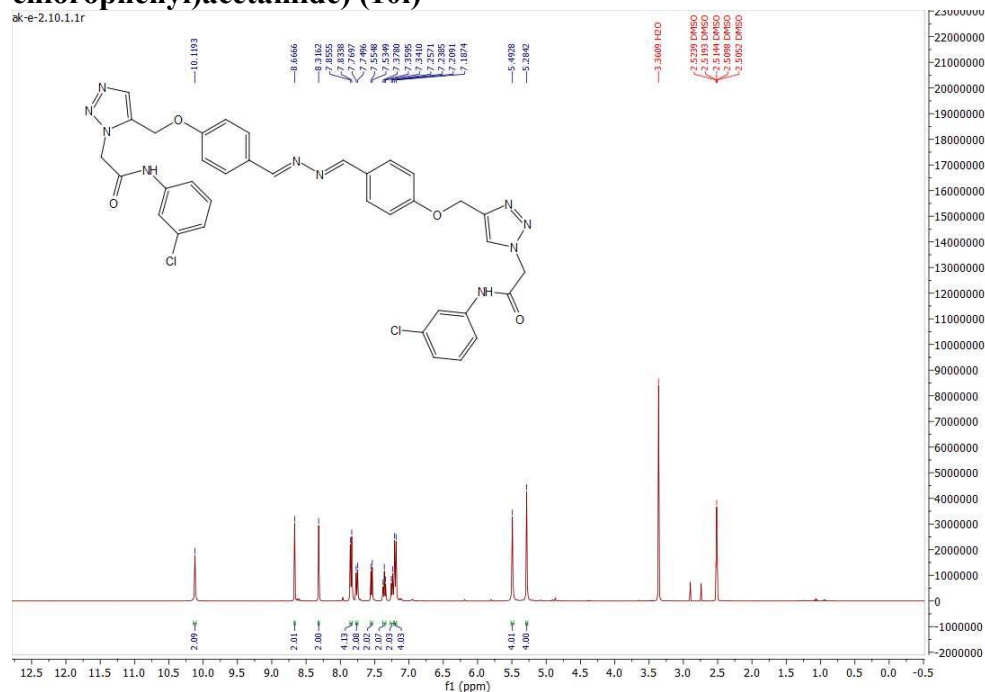
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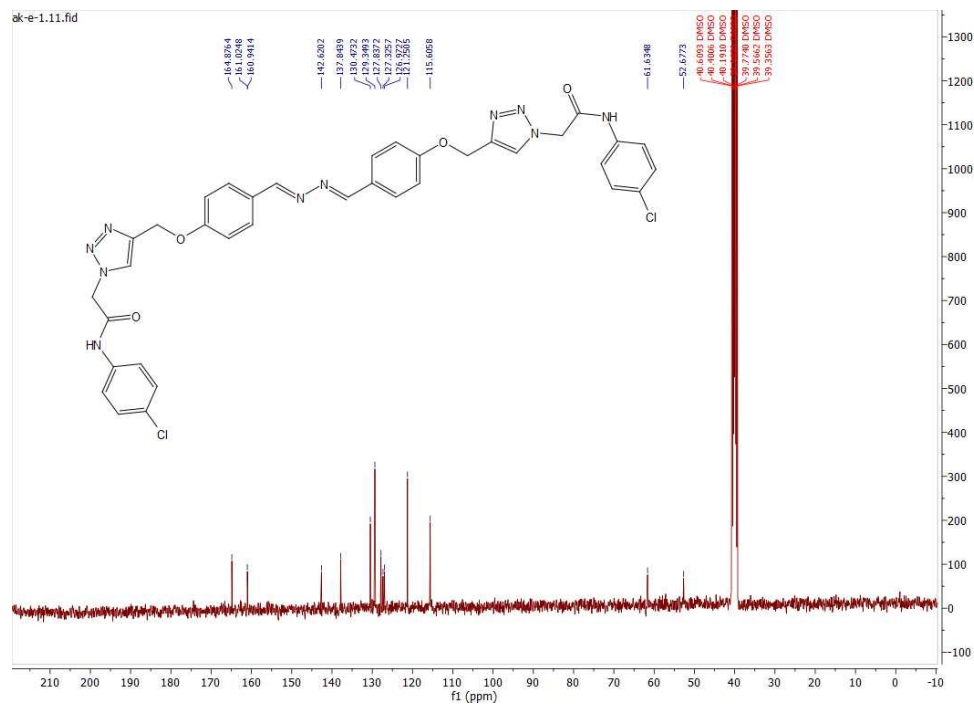
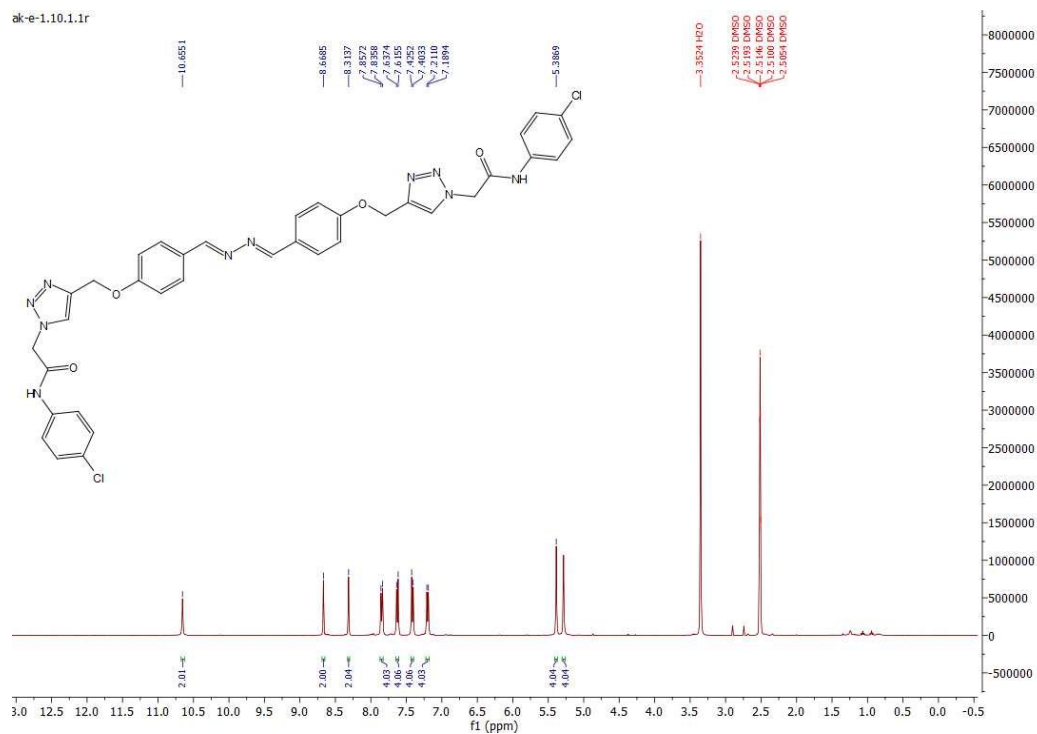
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2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(3-chlorophenyl)acetamide) (10i)

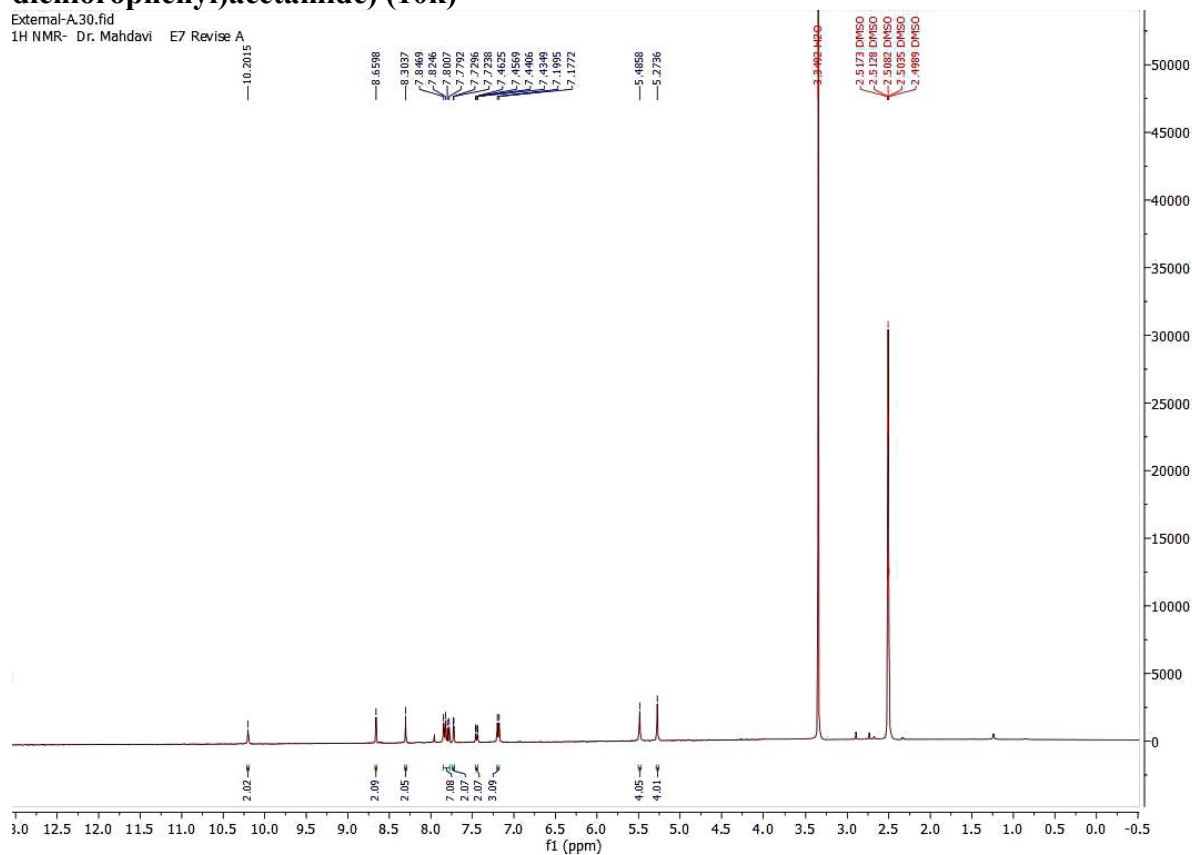


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(4-chlorophenyl)acetamide) (10j)

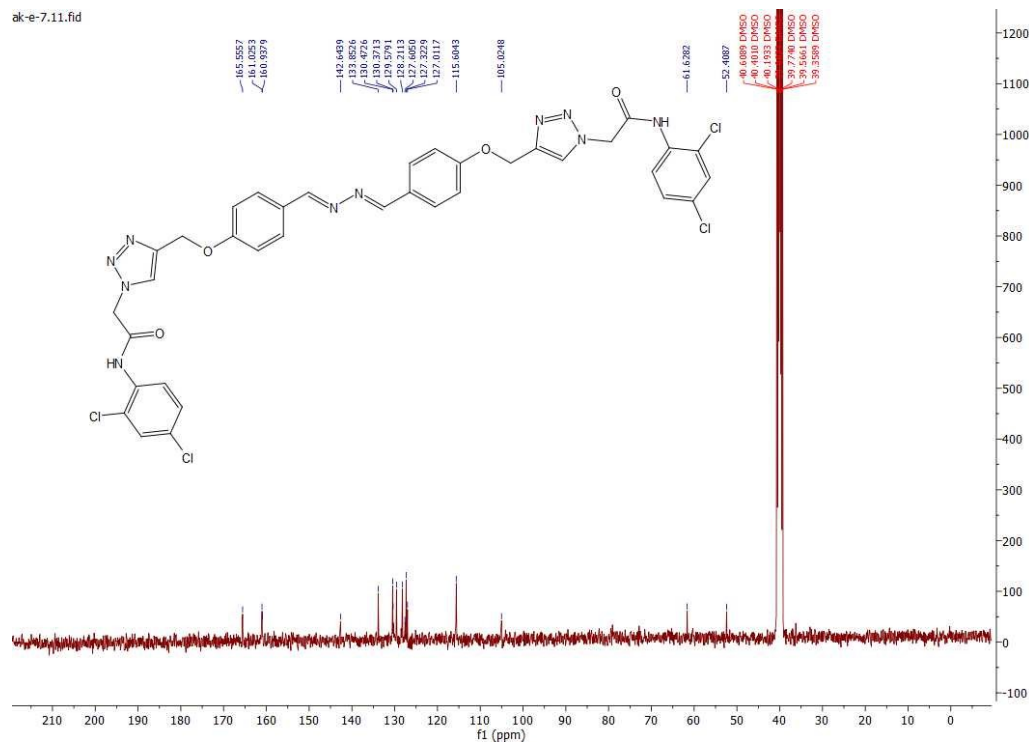


2,2'-((((((1E,1'E)-hydrazine-1,2-diylidenebis(methaneylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(2,4-dichlorophenyl)acetamide) (10k)

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1H NMR- Dr. Mahdavi E7 Revise A



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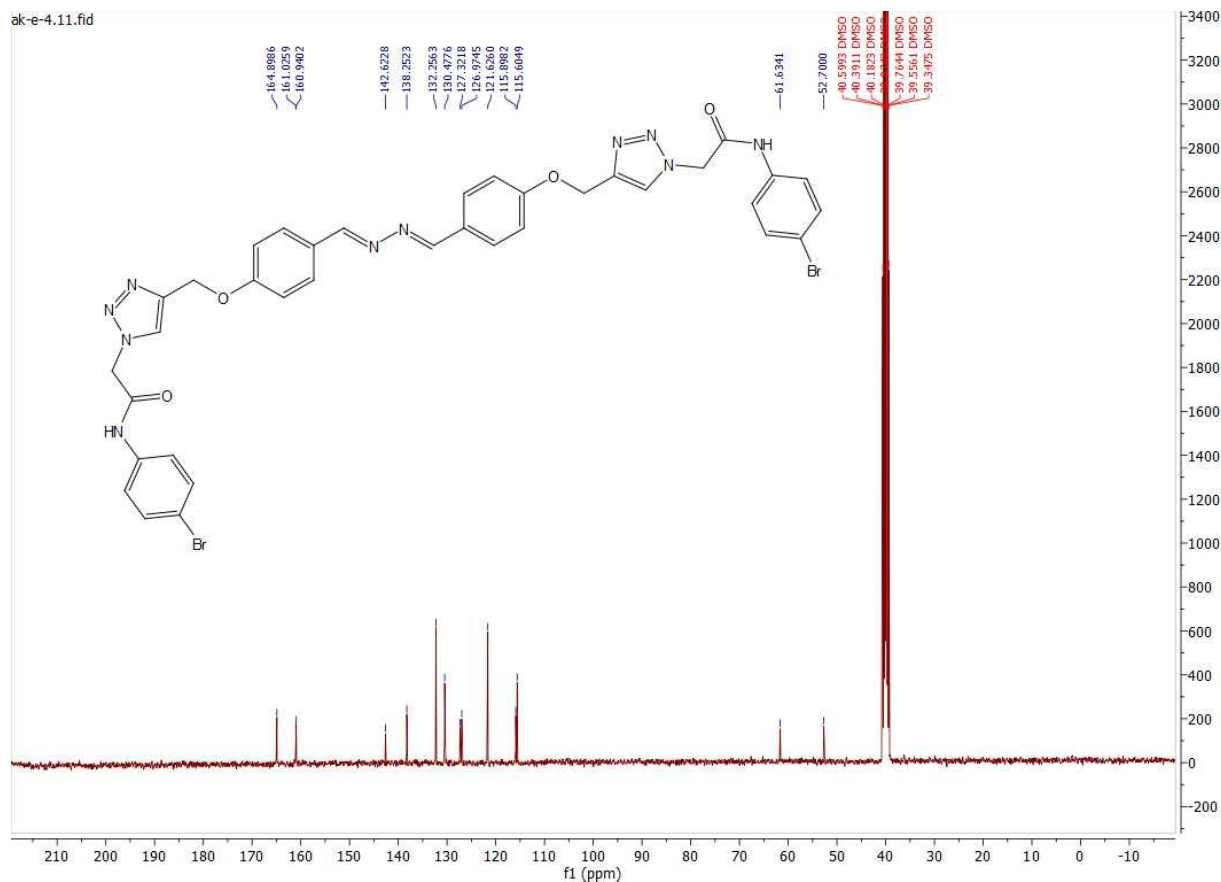


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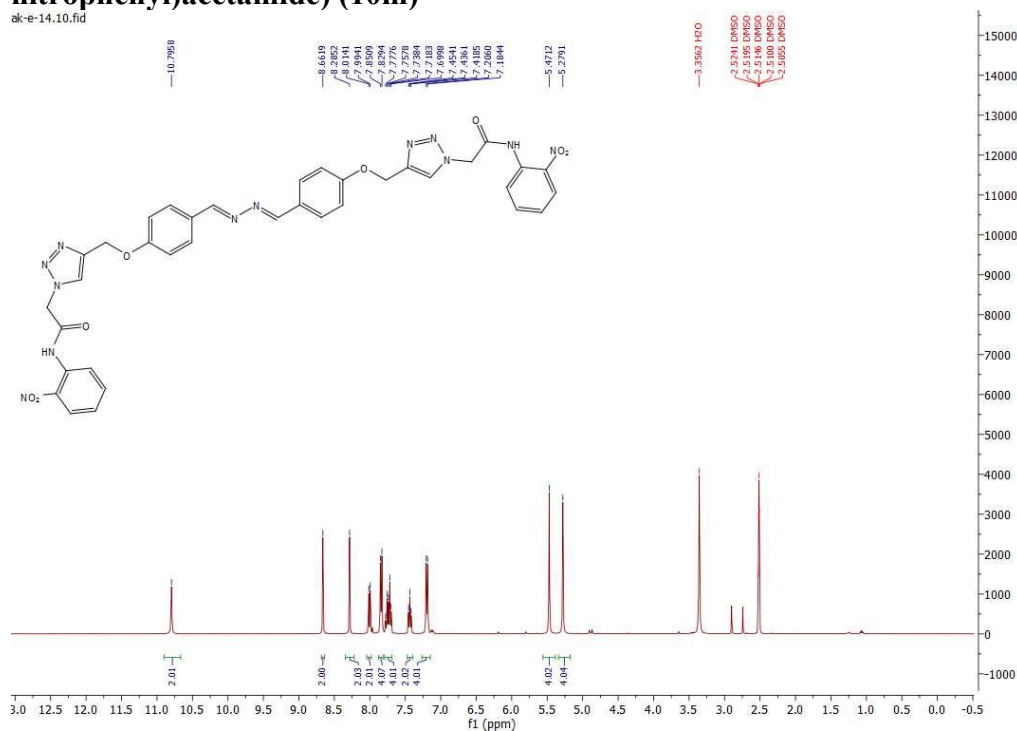
Chemical structure of compound 10 is shown above the spectrum. The structure is a complex molecule with a pyrazole ring, a benzimidazole ring, and a bromophenyl ring.

¹H NMR spectrum (DMSO-d₆) of compound 10. The x-axis represents the chemical shift in ppm (f1), ranging from -0.5 to 13.0. The y-axis represents the intensity in arbitrary units (a.u.), ranging from -1000 to 15000. The spectrum shows several peaks, with the following chemical shifts (ppm) and integration values (area) labeled:

- 10.657 (integration: 2.01)
- 8.641 (integration: 2.00)
- 8.310 (integration: 2.06)
- 8.057 (integration: 4.13)
- 7.852 (integration: 4.09)
- 7.564 (integration: 4.13)
- 7.546 (integration: 4.09)
- 7.485 (integration: 4.06)
- 7.468 (integration: 4.02)
- 5.385 (integration: 4.06)
- 5.286 (integration: 4.02)
- 3.369 (integration: 4.06)
- 3.350 (integration: 4.02)



2,2'-((((1E,1'E)-hydrazine-1,2-diylidenebis(methanylylidene))bis(4,1-phenylene))bis(oxy))bis(methylene))bis(1H-1,2,3-triazole-4,1-diyl))bis(N-(2-nitrophenyl)acetamide) (10m)



ak-e-14.11.fid

