

Supporting Information

A Homodimeric Radioligand Derived From 1-(2-Methoxyphenyl)piperazine with High Affinity For In Vivo 5-HT_{1A} Receptor Imaging

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Supporting Information Description:

Figure S1. ¹ HNMR of compound 1	S2
Figure S2. ¹ HNMR of compound 1	S3
Figure S3. Mass spectrum of compound 1	S4
Figure S4. ¹ HNMR of compound 2	S5
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Figure S9. Mass spectrum of compound 3	S10
Figure S10. Radiochromatogram of ^{99m} Tc-DTPA-bis(MPBA)	S11

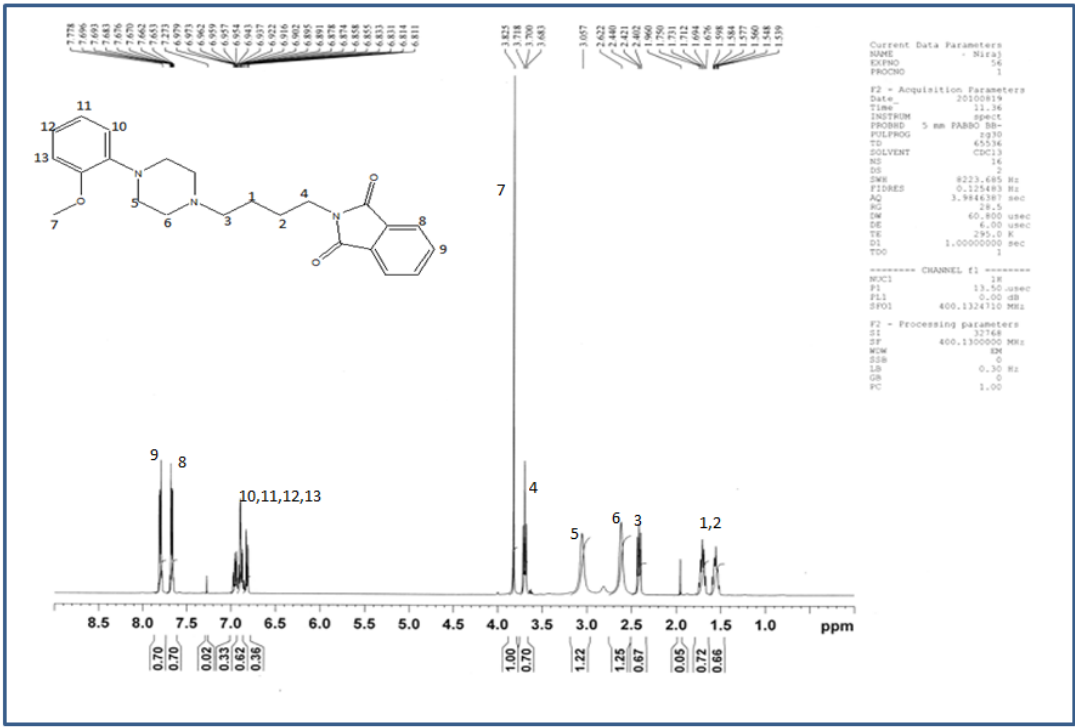


Figure S1. ¹HNMR spectrum of 2-(2-(4-(2-methoxyphenyl)piperazin-1-yl)isoindoline-1,3-dione (**1**)

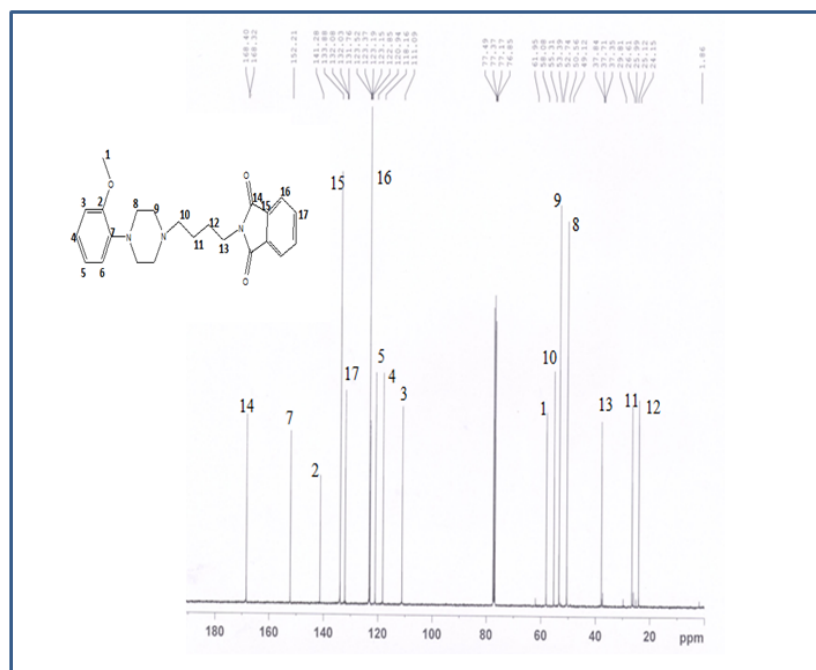


Figure S2. ¹³C NMR spectrum of 2-(2-(4-(2-methoxyphenyl)piperazin-1-yl)isoindoline-1,3-dione (**1**)

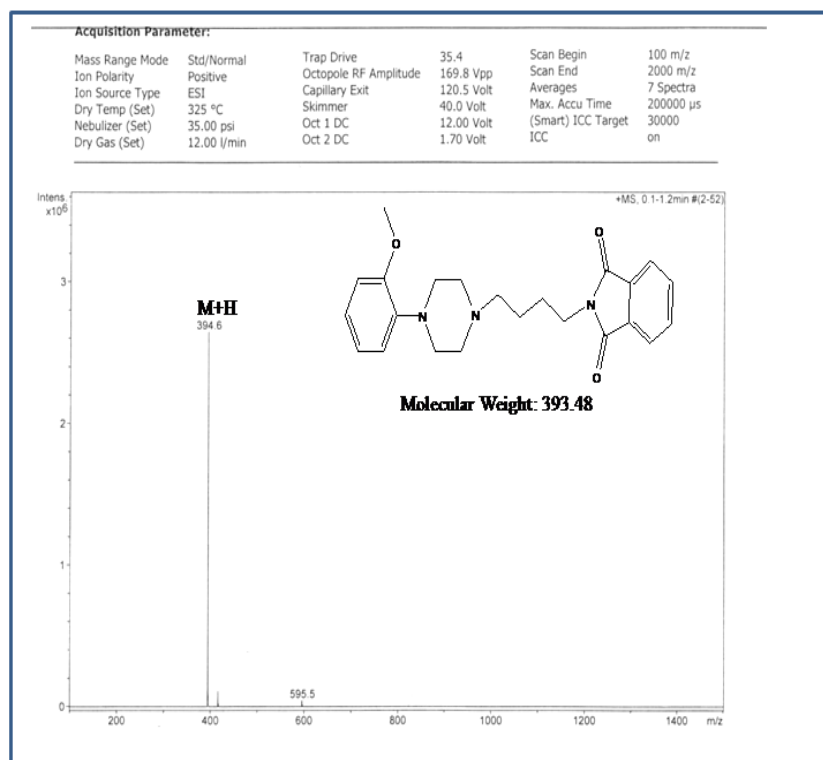


Figure S3. Mass spectrum of 2-(2-(4-(2-methoxyphenyl)piperazin-1-yl)isoindoline-1,3-dione (**1**)

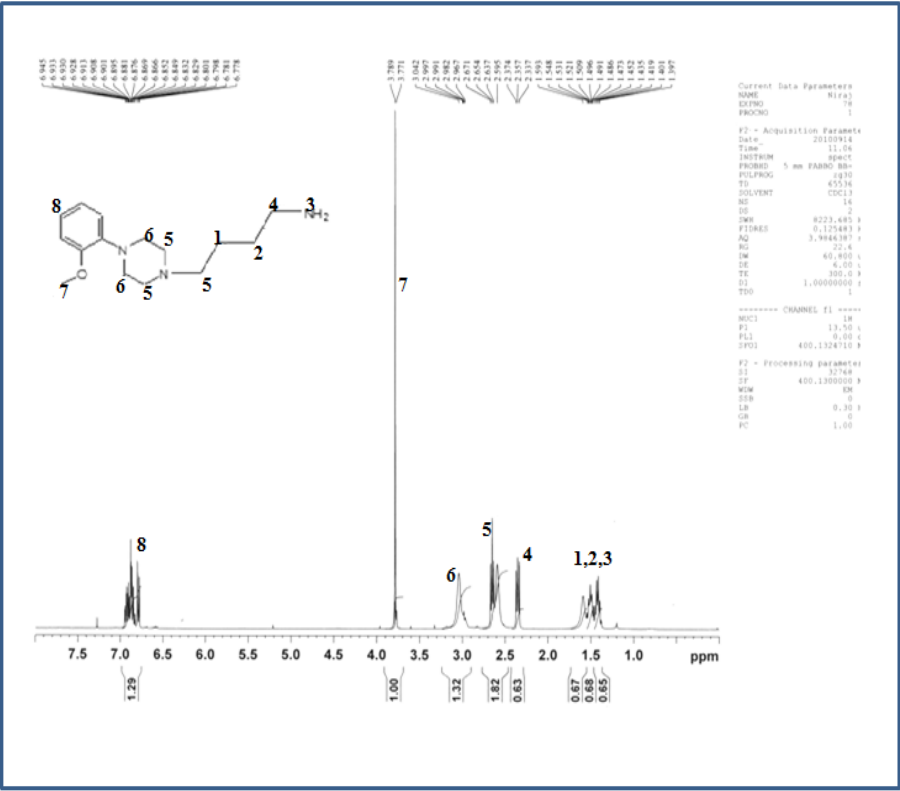


Figure S4. ¹H NMR spectrum of 4-(4-(2-methoxyphenyl)piperazine-1-yl)butan-1-amine (**2**)

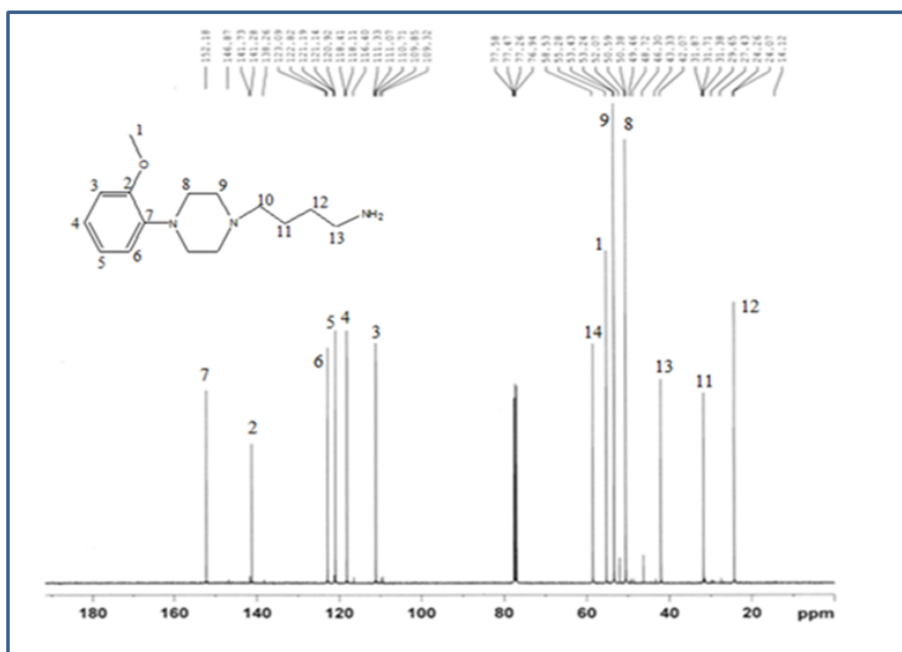


Figure S5. ^{13}C NMR spectrum of 4-(4-(2-methoxyphenyl)piperazine-1-yl)butan-1-amine (**2**)

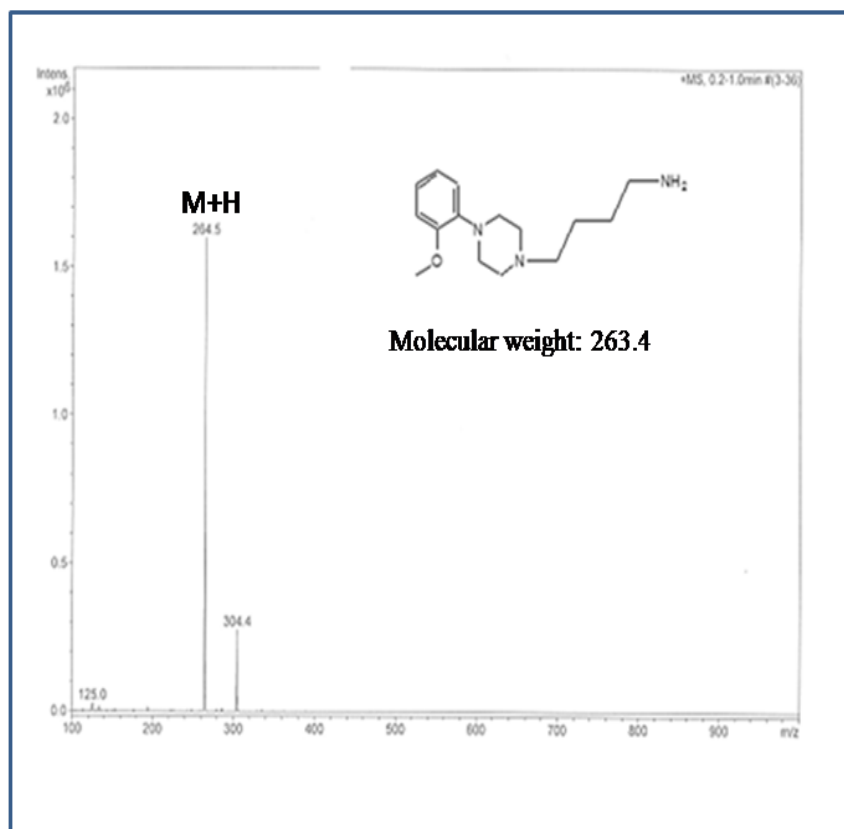


Figure S6. Mass spectrum of 4-(4-(2-methoxyphenyl)piperazine-1-yl)butan-1-amine (2)

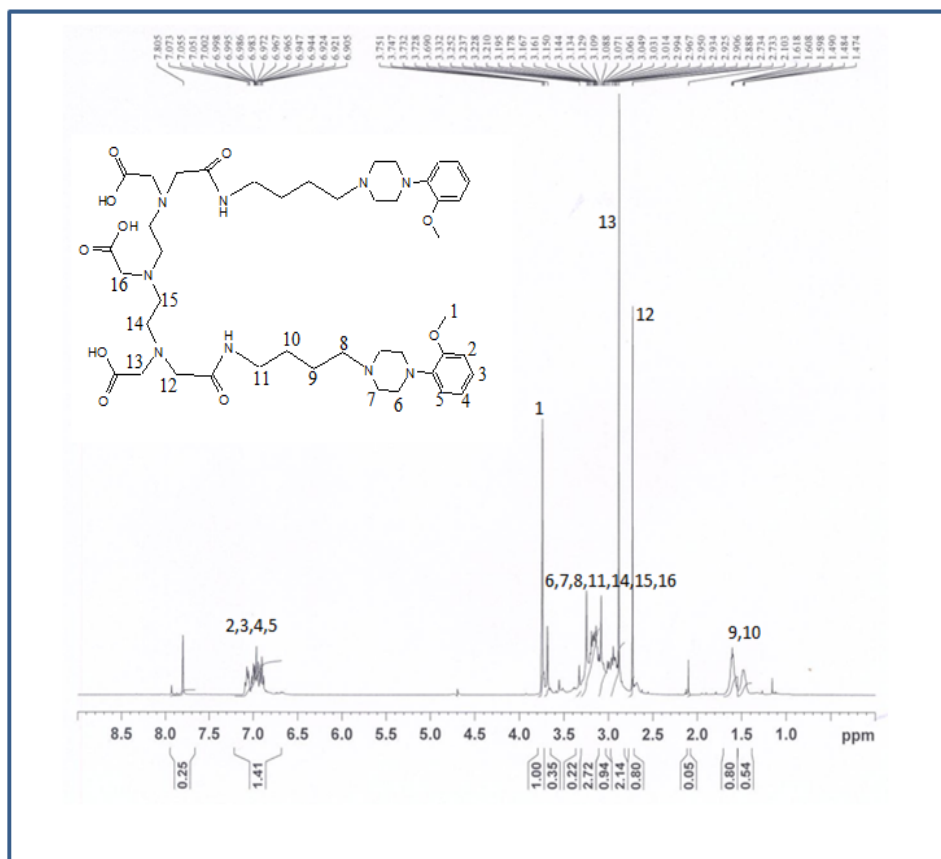


Figure S7. ¹H NMR spectrum of 5,8-bis(carboxymethyl)-15-(4-(2-methoxyphenyl)piperazine-1-yl)-2-(2-(4-(4-(2-methoxyphenyl)piperazine-1-yl)butylamino)-2-oxoethyl)-10-oxo-2,5,8,11-tetraazapentadecane-1-carboxylic acid
(3)

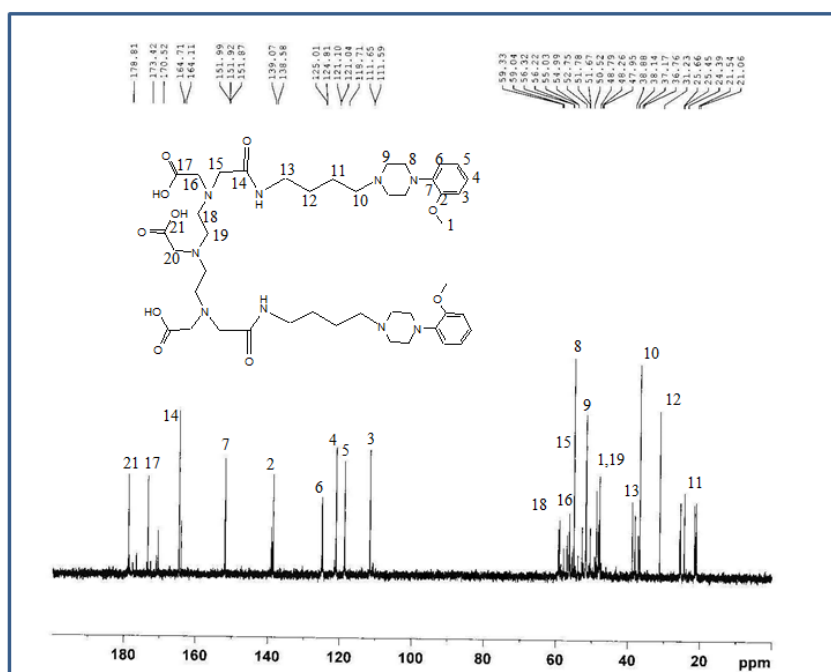


Figure S8. ¹³CNMR spectrum of 5,8-bis(carboxymethyl)-15-(4-(2-methoxyphenyl)piperazine-1-yl)-2-(2-(4-(4-(2-methoxyphenyl)piperazine-1-yl)butylamino)-2-oxoethyl)-10-oxo-2,5,8,11-tetraazapentadecane-1-carboxylic acid
(**3**)

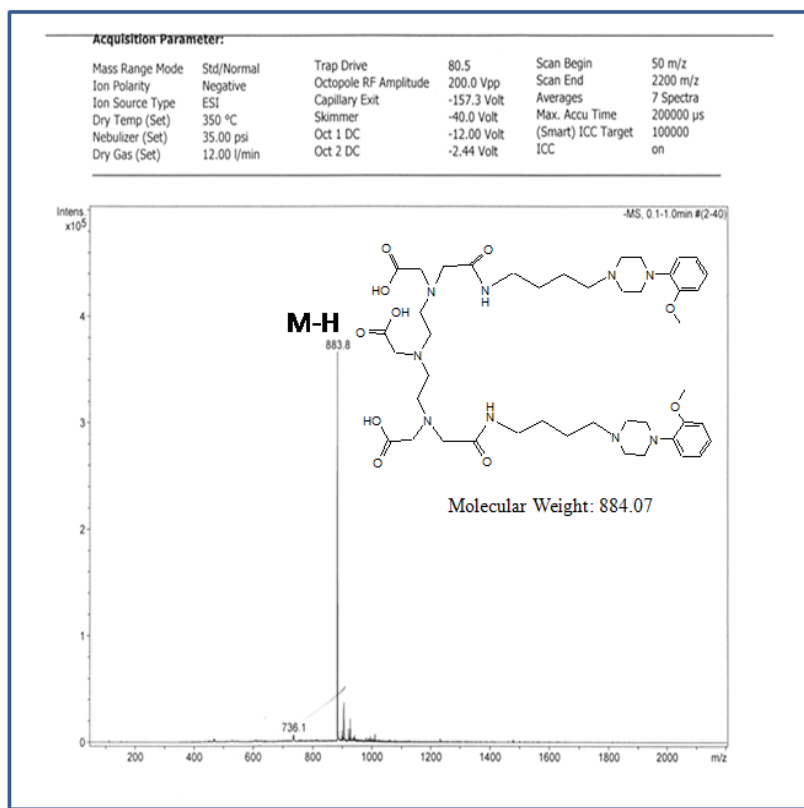
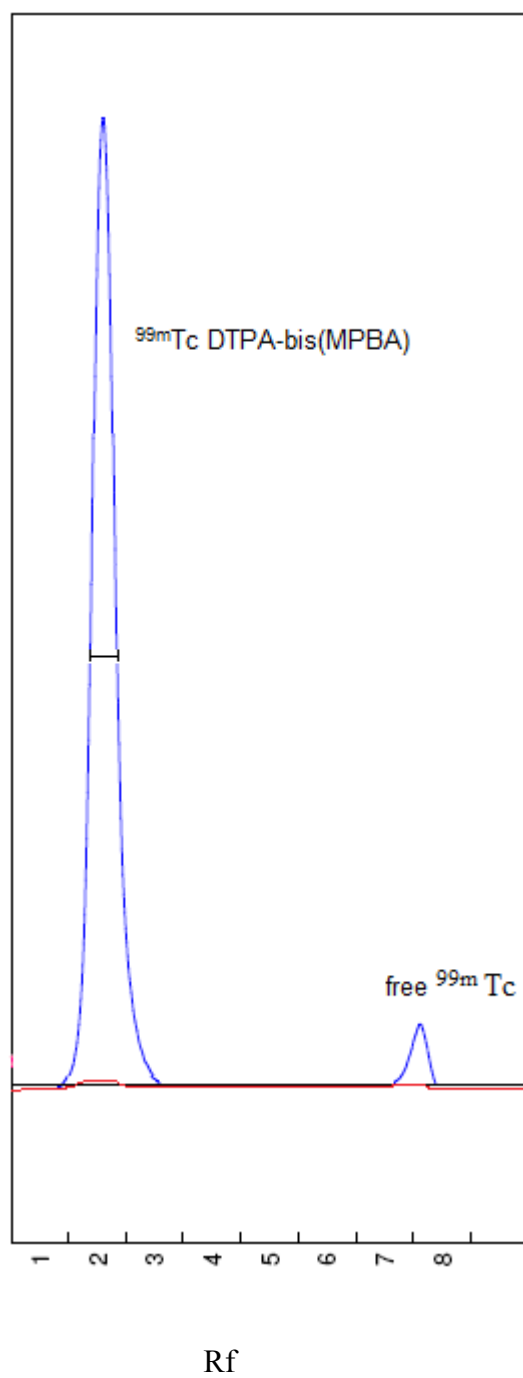


Figure S9. Mass spectrum of 5,8-bis(carboxymethyl)-15-(4-(2-methoxyphenyl)piperazine-1-yl)-2-(2-(4-(4-(2-methoxyphenyl)piperazine-1-yl)butylamino)-2-oxoethyl)-10-oxo-2,5,8,11-tetraazapentadecane-1-carboxylic acid
(3)



FiguresS10.TLC Scan (Radiochromatogram) of ^{99m}Tc DTPA-bis(MPBA)

