Supporting Information for RA-ART-07-2014-007004


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Supporting Information Description

**Fig. S1** - Two dimensional view of Spiperone and 1-phenyl1,3,8-triazaspiro[4,5]decan-4-one with D_2 receptor.

**Fig. S2** - Two dimensional view of known Spiperone analogues and 1-phenyl1,3,8-triazaspiro[4,5]decan-4-one with D_2 receptor

**Fig. S3** - Two dimensional views of known structurally similar analogues and with D_2 receptor

**Fig. S4** - Radiochromatogram of $^{99m}$Tc-DTPA-bis-(1-phenyl1,3,8-triazaspiro[4,5]decan-4-one)

**Fig. S5** - Radio-TLC of $^{99m}$Tc labelled DTPA-bis-(1-phenyl1,3,8-triazaspiro[4,5]decan-4-one) after C-18 reversed phase extraction cartridge purification in 100% Acetone.

**Fig. S6. In vitro in vivo stability of $^{99m}$Tc-DTPA-bis-(1-phenyl1,3,8 triazaspiro[4,5]decan-4-one)
Fig. S1 - Two dimensional view of Spiperone and 1-phenyl1,3,8-triazaspiro[4,5]decan-4-one with D$_2$ receptor.*

Fig. S2 - Two dimensional view of known Spiperone analogues and 1-phenyl1,3,8-triazaspiro[4,5]decan-4-one with D$_2$ receptor*
Fig. S3 - Two dimensional views of known structurally similar analogues and with D₂ receptor

* Where green colored were hydrophobic, light blue were polar and red were positive charged residues. Pink lines represents hydrogen bonds, Green lines for pi-pi stacking.
**Fig. S4** - Radiochromatogram of $^{99m}$Tc-DTPA-bis-(1-phenyl1,3,8-triazaspiro[4,5]decan-4-one) obtained with ITLC-SG paper strip developed in Acetone and 0.01% triethylamine showing one peaks after purification with C-18 reversed phase extraction cartridge.

![Radiochromatogram](image)

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<th>Component</th>
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<th>Height</th>
<th>External Units</th>
<th>Area %</th>
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<td>7432.5740</td>
<td>217.949</td>
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<td>99.999</td>
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**Fig. S5** - Radio-TLC of $^{99m}$Tc labelled DTPA-bis-(1-phenyl1,3,8-triazaspiro[4,5]decan-4-one) after C-18 reversed phase extraction cartridge purification in 100% Acetone.
**Fig. S6** - *In vitro*/*in vivo* stability of $^{99m}$Tc labelled DTPA-bis-(1-phenyl,1,3,8-triazaspiro[4,5]decan-4-one)