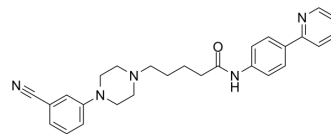


## Dopamine D3 receptor ligand-2

Cat. No.:	HY-115954
Molecular Formula:	C <sub>27</sub> H <sub>29</sub> N <sub>5</sub> O
Molecular Weight:	439.55
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



### BIOLOGICAL ACTIVITY

Description	Dopamine D3 receptor ligand-2 (compound 8) is a potent D <sub>3</sub> receptor ligand with a K <sub>i</sub> of 11.4 nM. Dopamine D3 receptor ligand-2 have high selectivity for D <sub>3</sub> over D <sub>2</sub> (K <sub>i</sub> =1228 nM). Dopamine D3 receptor ligand-2 has the potential for Cocaine use disorder (CUD) research <sup>[1]</sup> .	
IC <sub>50</sub> & Target	D <sub>3</sub> Receptor 11.4 nM (K <sub>i</sub> )	D <sub>2</sub> Receptor 1228 nM (K <sub>i</sub> )

### REFERENCES

[1]. Benjamin E. Blass, et al. Synthesis of functionalized 5-(4-arylpiperazin-1-yl)-N-arylpentanamides and their evaluation as D<sub>3</sub> receptor ligands. Medicinal Chemistry Research volume 31, pages735–748 (2022).

**Caution: Product has not been fully validated for medical applications. For research use only.**

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