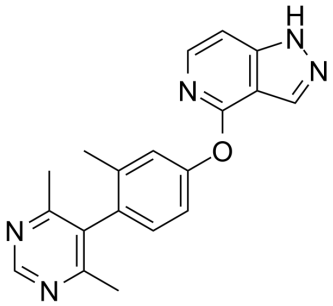
PF2562

Cat. No.:	HY-120879
CAS No.:	1609258-91-4
Molecular Formula:	$C_{19}H_{17}N_5O$
Molecular Weight:	331.37
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	PF2562 (Example 6), a dopamine D1 ligand, ascts as a dopamine D1 agonist or partial agonist. PF2562 binds to human D1 receptor with a K_i of 113 nM. PF2562 exhibits activity against human D1 cAMP with an EC_{50} of 568 nM in HTRF assay[1].
IC_{50} & Target	EC50: 568 nM (human D1 cAMP)[1] Ki: 113 nM (human D1 receptor)[1]
In Vitro	Dopamine acts upon neurons through two families of dopamine receptors, D1-like receptors (D1Rs) and D2-like receptors (D2Rs). The D1-like receptor family consists of D1 and D5 receptors which are expressed in many regions of the brain. Dopamine D1 receptors are implicated in numerous neuropharmacological and neurobiological functions[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Jennifer Elizabeth Davoren, et al. Heteroaromatic compounds and their use as dopamine d1 ligands. US20140128374A1.

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