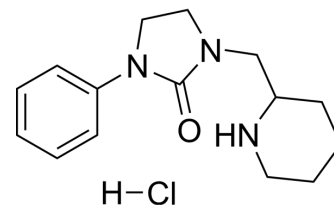


Dopamine D2 receptor agonist-3

Cat. No.:	HY-103418
CAS No.:	1257326-24-1
Molecular Formula:	C ₁₅ H ₂₂ ClN ₃ O
Molecular Weight:	295.81
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 D2 receptor agonist-3 (compound 3) is a selective D2 receptor partial agonist and Dopamine D3 receptor antagonist (with pEC ₅₀ of 8.3 and <5.5 respectively) ^[1] .	
IC₅₀ & Target	D ₂ Receptor 5 nM (EC ₅₀)	D ₃ Receptor >3.2 μM (EC ₅₀)
In Vivo	Dopamine D2 receptor agonist-3 (3 mg/kg, s.c.) shows high brain penetration (brain to blood ratio of 5.5) and T _{max} of 0.5 h ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Holmes IP, et al. The identification of a selective dopamine D2 partial agonist, D3 antagonist displaying high levels of brain exposure. *Bioorg Med Chem Lett.* 2010 Mar 15;20(6):2013-6.

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

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