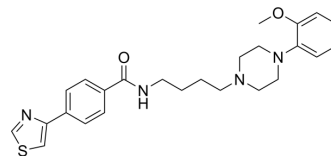


OS-3-106

Cat. No.:	HY-116820		
CAS No.:	1580000-17-4		
Molecular Formula:	C ₂₅ H ₃₀ N ₄ O ₂ S		
Molecular Weight:	450.6		
Target:	Dopamine Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 83.33 mg/mL (184.93 mM; ultrasonic and warming and heat to 60°C)

Concentration	Mass		
	1 mg	5 mg	10 mg
1 mM	2.2193 mL	11.0963 mL	22.1926 mL
5 mM	0.4439 mL	2.2193 mL	4.4385 mL
10 mM	0.2219 mL	1.1096 mL	2.2193 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

OS-3-106 is a potent, BBB-penetrated and selective dopamine D3 receptor (D3R) agonist. OS-3-106 binds with high affinity ($K_i = 0.2$ nM) at the D3R. OS-3-106 can be used for psychoactivator addiction research^[1].

IC₅₀ & Target

D ₃ Receptor 0.2 nM (K _i)	D ₂ Receptor
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In Vitro

OS-3-106 exhibits 115-fold binding selectivity for the D3R compared with the D2R^[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Cheung TH, et al. Reduction of cocaine self-administration and D3 receptor-mediated behavior by two novel dopamine D3 receptor-selective partial agonists, OS-3-106 and WW-III-55. J Pharmacol Exp Ther. 2013 Nov;347(2):410-23.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA