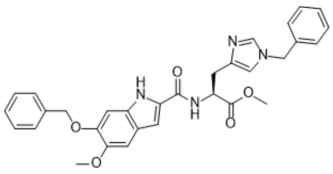
BMS-466442

Cat. No.:	HY-120170
CAS No.:	1598424-76-0
Molecular Formula:	$C_{31}H_{30}N_4O_5$
Molecular Weight:	538.59
Target:	ASCT; Adrenergic Receptor; Dopamine Transporter
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	BMS-466442 is a potent and selective inhibitor of asc-1 (alanine serine cysteine transporter-1), with an IC_{50} of 11 nM. BMS-466442 inhibits [^{3}H] D-serine uptake into rat brain synaptosomes, with an IC_{50} of 400 nM. BMS-466442 can be used for schizophrenia research[1][2].	
IC_{50} & Target	α adrenergic receptor ≥10 μM (IC_{50})	ASCT1 1 nM (IC_{50})
In Vitro	BMS-466442 dose-dependently inhibits asc-1 activity in human asc-1 expressing cells and primary cultures with IC_{50} values of 36.8 ± 11.6 nM and 19.7 ± 6.7 nM, respectively[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Brown JM, et al. In vitro Characterization of a small molecule inhibitor of the alanine serine cysteine transporter -1 (SLC7A10). J Neurochem. 2014 Apr;129(2):275-83.

[2]. Torrecillas IR, et al. Inhibition of the Alanine-Serine-Cysteine-1 Transporter by BMS-466442. ACS Chem Neurosci. 2019 May 15;10(5):2510-2517.

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