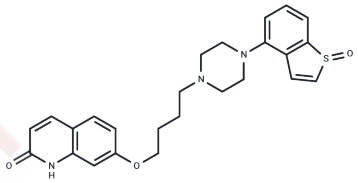
Data Sheet (Cat.No.T10612)

TargetMol

Brexpiprazole S-oxide

Chemical Properties



CAS No. : 1191900-51-2

Formula: C25H27N3O3S

Molecular Weight: 449.57

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Brexpiprazole S-oxide (DM-3411), a primary metabolite of Brexpiprazole, acts as a partial agonist of human 5-HT1A and dopamine receptors with Ki values of 0.12 nM and 0.3 nM, respectively.
Targets(IC50)	5-HT Receptor,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.2243 mL	11.1217 mL	22.2435 mL
5 mM	0.4449 mL	2.2243 mL	4.4487 mL
10 mM	0.2224 mL	1.1122 mL	2.2243 mL
50 mM	0.0445 mL	0.2224 mL	0.4449 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen B, et al. Effects of 26 Recombinant CYP3A4 Variants on Brexpiprazole Metabolism. Chem Res Toxicol. 2019 Oct 17.

Ishima T, et al. Potentiation of neurite outgrowth by brexpiprazole, a novel serotonin-dopamine activity modulator: a role for serotonin 5-HT1A and 5-HT2A receptors. Eur Neuropsychopharmacol. 2015 Apr;25(4):505-11.

Yoshimi N, et al. Improvement of dizocilpine-induced social recognition deficits in mice by brexpiprazole, a novel serotonin-dopamine activity modulator. Eur Neuropsychopharmacol. 2015 Mar;25(3):356-64.

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