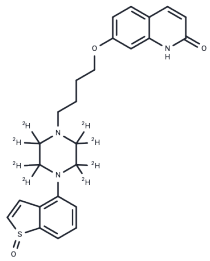
Data Sheet (Cat.No.T10611)

TargetMol

Brexpiprazole S-oxide-D8

Chemical Properties



CAS No. : 2748605-29-8

Formula: C25H19D8N3O3S

Molecular Weight: 457.61

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-D8 is a deuterium-labeled Brexpiprazole S-oxide (T10612), the primary metabolite of Brexpiprazole, which is a partial agonist of human 5-HT1A and dopamine receptors (Kis: 0.12 nM and 0.3 nM).
Targets(IC50)	5-HT Receptor,Dopamine Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1853 mL	10.9263 mL	21.8527 mL
5 mM	0.4371 mL	2.1853 mL	4.3705 mL
10 mM	0.2185 mL	1.0926 mL	2.1853 mL
50 mM	0.0437 mL	0.2185 mL	0.4371 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

1. 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.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481