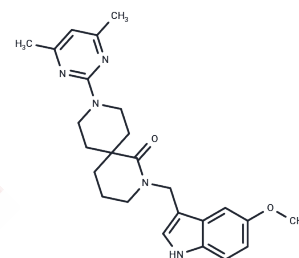


Orexin receptor antagonist 2

Chemical Properties

CAS No. :	1457940-75-8
Formula:	C ₂₅ H ₃₁ N ₅ O ₂
Molecular Weight:	433.55
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	Orexin Receptor Antagonist 2 (compound 30), characterized by its potent antagonistic activity with pK _i s of 7.69 and 9.78, holds promise for insomnia research[1].
Targets(IC ₅₀)	Others,OX Receptor

Solubility Information

Solubility	DMSO: 62.5 mg/mL (144.16 mM),Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween-80+45% Saline: 2.5 mg/mL (5.77 mM),Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3065 mL	11.5327 mL	23.0654 mL
5 mM	0.4613 mL	2.3065 mL	4.6131 mL
10 mM	0.2307 mL	1.1533 mL	2.3065 mL
50 mM	0.0461 mL	0.2307 mL	0.4613 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

Betschart C, et al. Identification of a novel series of orexin receptor antagonists with a distinct effect on sleep architecture for the treatment of insomnia. J Med Chem. 2013;56(19):7590-7607.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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