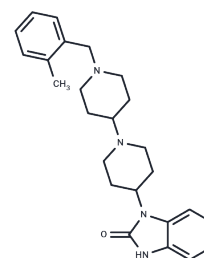


TBPB

Chemical Properties

CAS No. :	634616-95-8
Formula:	C ₂₅ H ₃₂ N ₄ O
Molecular Weight:	404.55
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	TBPB, an allosteric M1 mAChR agonist, is an [iso]propyl (2-{4-methoxy-3-[3-(4-methylpiperidin-1-yl)propoxy]phenyl}ethyl)carbamate exhibiting a molar mass of 430.6 g/mol.
Targets(IC50)	Beta Amyloid,AChR
Kinase Assay	in vitro kinase assay: MELK recombinant protein (0.4 µg) is mixed with 5 µg of each substrate in 20 µL of kinase buffer containing 30 mM Tris-HCl (pH), 10 mM DTT, 40 mM NaF, 10 mM MgCl ₂ , 0.1 mM EGTA with 50 µM cold-ATP and 10 Ci of [γ- ³² P]ATP for 30 min at 30 °C. The reaction is terminated by addition of SDS sample buffer and boiled for 5 min prior to SDS-PAGE. The gel is dried and autoradiographed with intensifying screens at room temperature. OTSSP167 (final concentration of 10 nM) is dissolved in DMSO and added to kinase buffer before the incubation.

Solubility Information

Solubility	DMSO: 4.05 mg/mL (10.01 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 1 mg/mL (2.47 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	2.4719 mL	12.3594 mL	24.7188 mL
5 mM	0.4944 mL	2.4719 mL	4.9438 mL
10 mM	0.2472 mL	1.2359 mL	2.4719 mL
50 mM	0.0494 mL	0.2472 mL	0.4944 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

Jones CK, et al. J Neurosci. 2008 Oct 8;28(41):10422-33.

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