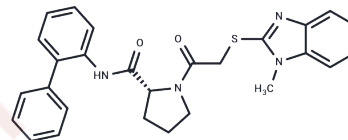


TCS 1102

Chemical Properties

CAS No. : 916141-36-1
 Formula: C₂₇H₂₆N₄O₂S
 Molecular Weight: 470.59
 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	TCS 1102 is an effective, dual orexin receptor antagonist (K _i : 0.2/3 nM for OX ₂ /1 receptors).
Targets(IC ₅₀)	OX Receptor

Solubility Information

Solubility	DMSO: 50 mg/mL (106.25 mM),Sonication is recommended. Ethanol: 100 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: 2 mg/mL (4.25 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	2.125 mL	10.625 mL	21.2499 mL
5 mM	0.425 mL	2.125 mL	4.250 mL
10 mM	0.2125 mL	1.0625 mL	2.125 mL
50 mM	0.0425 mL	0.2125 mL	0.425 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

Bergman JM, et al. Bioorg Med Chem Lett. 2008 Feb 15;18(4):1425-30.

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