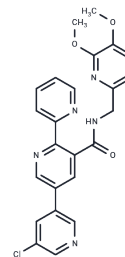


MK-1064

## Chemical Properties

CAS No. : 1207253-08-4  
 Formula: C<sub>24</sub>H<sub>20</sub>ClN<sub>5</sub>O<sub>3</sub>  
 Molecular Weight: 461.9  
 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	MK-1064 (Urokinase inhibitor 1) is a selective orexin 2 receptor antagonist (2-SORA).
Targets(IC50)	OX Receptor

## Solubility Information

Solubility	H <sub>2</sub> O: < 0.1 mg/mL (insoluble), DMSO: 50 mg/mL (108.25 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 (4.33 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	2.165 mL	10.8249 mL	21.6497 mL
5 mM	0.433 mL	2.165 mL	4.3299 mL
10 mM	0.2165 mL	1.0825 mL	2.165 mL
50 mM	0.0433 mL	0.2165 mL	0.433 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

Roecker AJ et al. ChemMedChem. 2014 Feb;9(2):311-22.

Gotter AL et al. Orexin 2 Receptor Antagonism is Sufficient to Promote NREM and REM Sleep from Mouse to Man. Sci Rep. 2016 Jun 3;6:27147.

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