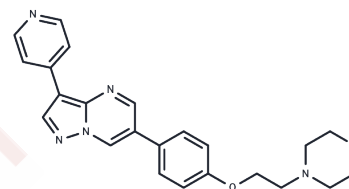


## Pyrazolo[1,5-a]pyrimidine 4h

## Chemical Properties

CAS No. : 597544-21-3  
 Formula: C<sub>23</sub>H<sub>23</sub>N<sub>5</sub>O<sub>2</sub>  
 Molecular Weight: 401.46  
 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	Pyrazolo[1,5-a]pyrimidine 4h is a morpholine derivative that is a selective antagonist of the adenosine A <sub>2A</sub> receptor. It has been shown to be neuroprotective in animal models of Parkinson's disease and Huntington's chorea.
Targets(IC <sub>50</sub> )	Others
In vivo	Only Parthenolide, the HDAC inhibitor with anti-inflammatory features, displayed a potent anti-apoptotic effect in Phb1 KO hepatocytes. Indeed, TSA and Parthenolide-treated hepatocytes showed increased levels of FXR, and reduced levels of CYP7A1, HDAC4, TNF $\alpha$ , TRAIL and Bax suggesting a less toxic effect of bile acids as a results of specific HDAC inhibition, resulting in the attenuation of the Phb1 KO hepatocytes apoptotic response. Importantly, Parthenolide exerts a protective effect from the liver injury after BDL in Phb1 KO mice. Indeed, Parthenolide treatment results in a reduction of the mortality rate of this mice after BDL associated with a lower apoptotic response as revealed by a reduction of necrotic areas, Tunel-staining, as well as decreased ALT (8431 $\pm$ 957 vs.4225 $\pm$ 210 U/L) and AST (4805 $\pm$ 300 vs.2242 $\pm$ 438 U/L) activities compared to control Phb1 KO mice[3].

## Solubility Information

Solubility	DMSO: 25 mg/mL (62.27 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	2.4909 mL	12.4545 mL	24.9091 mL
5 mM	0.4982 mL	2.4909 mL	4.9818 mL
10 mM	0.2491 mL	1.2455 mL	2.4909 mL
50 mM	0.0498 mL	0.2491 mL	0.4982 mL

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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

Zhang, J., Peng, JF., Bai, YB. et al. Mol Divers (2016) 20: 887. <https://doi.org/10.1007/s11030-016-9690-y>

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