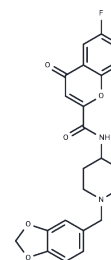


## MCHR1 antagonist 2

## Chemical Properties

CAS No. :	863115-70-2
Formula:	C <sub>23</sub> H <sub>21</sub> FN <sub>2</sub> O <sub>5</sub>
Molecular Weight:	424.42
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	MCHR1 antagonist 2 is an inhibitor of melanin-concentrating hormone receptor 1 (MCH1-R, IC <sub>50</sub> = 65 nM) and also inhibits hERG.
Targets(IC <sub>50</sub> )	Melanin-concentrating Hormone Receptor (MCHR),GPCR,Potassium Channel
In vitro	MCHR1 antagonist 2 has inhibitory effects on Ca <sup>2+</sup> flux, and hERG, with IC <sub>50</sub> s of 196 ± 30 nM and 4.0 ± 0.8 nM, respectively, in IMR-32 cells.MCHR1 antagonist 2 is an antagonist of melanin concentrating hormone receptor 1, with an IC <sub>50</sub> of 65 nM.

## Solubility Information

Solubility	DMSO: 9 mg/mL (21.21 mM),when pH is adjusted to 6 with HCl. 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 (2.36 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

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	1mg	5mg	10mg
1 mM	2.3562 mL	11.7808 mL	23.5616 mL
5 mM	0.4712 mL	2.3562 mL	4.7123 mL
10 mM	0.2356 mL	1.1781 mL	2.3562 mL
50 mM	0.0471 mL	0.2356 mL	0.4712 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

Lynch JK, et al. Optimization of chromone-2-carboxamide melanin concentrating hormone receptor 1 antagonists: assessment of potency, efficacy, and cardiovascular safety. *J Med Chem.* 2006 Nov 2;49(22):6569-84.

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