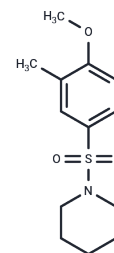


AA92593

Chemical Properties

CAS No. : 457961-34-1
 Formula: C₁₃H₁₉NO₃
 Molecular Weight: 269.36
 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	AA92593 has been used as a selective inhibitor of melanopsin.
Targets(IC50)	Others
In vitro	The involvement of melanopsin in the regulation of melatonin was also determined by using a specific inhibitor AA92593 and by inhibiting melanopsin-induced phospholipase C activation. Under this situation neither AANAT nor melatonin levels changed under light conditions (n = 4, ***p < 0.001). The discovery of melanopsin in the lens opens the possibility of regulating melatonin synthesis with the corresponding implication as an antioxidant substance[1].

Solubility Information

Solubility	DMSO: 22.5 mg/mL (83.53 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 (7.43 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	3.7125 mL	18.5625 mL	37.125 mL
5 mM	0.7425 mL	3.7125 mL	7.425 mL
10 mM	0.3713 mL	1.8563 mL	3.7125 mL
50 mM	0.0743 mL	0.3713 mL	0.7425 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

Alkozi H A , Wang X , Jesus P D L M , et al. Presence of melanopsin in human crystalline lens epithelial cells and its role in melatonin synthesis[J]. Experimental Eye Research, 2016:168.

Hehr, Carrie, L, et al. Melanopsin photoreception in the eye regulates light-induced skin colour changes through the production of -MSH in the pituitary gland[J]. Pigment cell & melanoma research, 2015.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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