

S26131

Chemical Properties

CAS No. : 296280-56-3

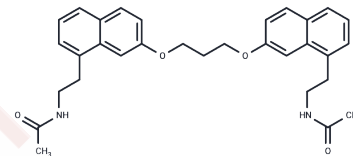
Formula: C₃₁H₃₄N₂O₄

Molecular Weight: 498.61

Store at low temperature

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	S26131 (N-[2-[7-[3-[8-(2-acetamidoethyl)naphthalen-2-yl]oxypropoxy]naphthalen-1-yl]ethyl]acetamide) behaves as an antagonist on MT1 and MT2 receptors with K _i of 0.5 and 112 nM respectively.
Targets(IC50)	Melatonin Receptor, MT Receptor
In vitro	S26131 is an effective and selective antagonist of MT1 and MT2 with K _B s of 5.32 and 143 nM, respectively[1].

Solubility Information

Solubility	DMSO: 25 mg/mL (50.14 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: 1 mg/mL (2.01 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	2.0056 mL	10.0279 mL	20.0558 mL
5 mM	0.4011 mL	2.0056 mL	4.0112 mL
10 mM	0.2006 mL	1.0028 mL	2.0056 mL
50 mM	0.0401 mL	0.2006 mL	0.4011 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

Descamps-François C, et al. Design and synthesis of naphthalenic dimers as selective MT1 melatonergic ligands. J Med Chem. 2003 Mar 27;46(7):1127-9.

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