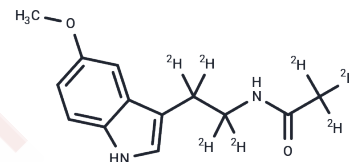


Melatonin-D7

Chemical Properties

CAS No. : 615251-68-8
 Formula: C₁₃H₁₆N₂O₂
 Molecular Weight: 239.32
 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	Melatonin-D7 is the deuterated form of melatonin. Melatonin (T1659) is a hormone produced by the pineal gland that activates melatonin receptors. It plays a role in sleep and possesses significant antioxidant and anti-inflammatory properties. As a novel selective ATF-6 inhibitor, melatonin induces apoptosis in human liver cancer cells by downregulating COX-2. Additionally, melatonin mitigates palmitic acid-induced apoptosis in mouse granulosa cells through endoplasmic reticulum stress.
Targets(IC50)	Apoptosis, Mitophagy, Melatonin Receptor, Endogenous Metabolite, Autophagy

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1785 mL	20.8925 mL	41.7851 mL
5 mM	0.8357 mL	4.1785 mL	8.357 mL
10 mM	0.4179 mL	2.0893 mL	4.1785 mL
50 mM	0.0836 mL	0.4179 mL	0.8357 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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