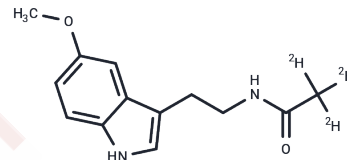


## MELATONIN (ACETYL-D3)

### Chemical Properties

CAS No. :	90735-69-6
Formula:	C <sub>13</sub> H <sub>13</sub> D <sub>3</sub> N <sub>2</sub> O <sub>2</sub>
Molecular Weight:	235.3
Storage:	Powder: -20°C for 3 years   In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



### Biological Description

Description	MELATONIN (ACETYL-D3) is a deuterated compound of MELATONIN. MELATONIN (T1659) has a CAS number of 73-31-4. Melatonin is a biogenic amine that is found in animals and plants. In mammals, melatonin is produced by the PINEAL GLAND. Its secretion increases in darkness and decreases during exposure to light. Melatonin is implicated in the regulation of SLEEP, mood, and REPRODUCTION. Melatonin is also an effective antioxidant.
Targets(IC50)	Apoptosis, Mitophagy, Melatonin Receptor, Endogenous Metabolite, Autophagy

### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.2499 mL	21.2495 mL	42.4989 mL
5 mM	0.850 mL	4.2499 mL	8.4998 mL
10 mM	0.425 mL	2.1249 mL	4.2499 mL
50 mM	0.085 mL	0.425 mL	0.850 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.

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