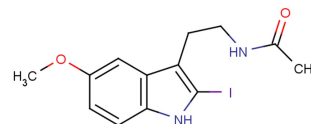


2-Iodomelatonin

Chemical Properties

CAS No.:	93515-00-5
Formula:	C ₁₃ H ₁₅ IN ₂ O ₂
Molecular Weight:	358.17
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	2-Iodomelatonin is a potent agonist of melatonin receptor 1 (MT1, Ki: 28 pM), it is more 5-fold selective for MT1 over MT2.
Targets(IC ₅₀)	Others: None
In vitro	2-iodomelatonin (0-7.5 µM; 18 hours) shares the protective properties of melatonin. It inhibits cell death of mutant htt ST14A and inhibits the increase in Rip2 expression in stressed mutant htt ST14A cells [2].

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.792 mL	13.96 mL	27.92 mL
5 mM	0.558 mL	2.792 mL	5.584 mL
10 mM	0.279 mL	1.396 mL	2.792 mL
50 mM	0.056 mL	0.279 mL	0.558 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. Tomkinson A, et al. A murine IL-4 receptor antagonist that inhibits IL-4- and IL-13-induced responses prevents antigen-induced airway eosinophilia and airway hyperresponsiveness. *J Immunol.* 2001 May 1;166(9):5792-800.
2. Wang X, et al. The melatonin MT1 receptor axis modulates mutant Huntingtin-mediated toxicity. *J Neurosci.* 2011 Oct 12;31(41):14496-507.

Inhibitors · Natural Compounds · Compound Libraries

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