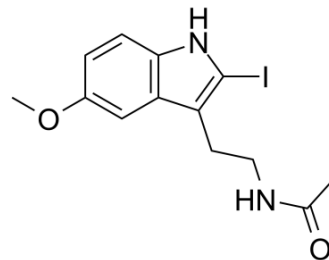


2-Iodomelatonin

Cat. No.:	HY-101176		
CAS No.:	93515-00-5		
Molecular Formula:	C ₁₃ H ₁₅ N ₂ O ₂		
Molecular Weight:	358.17		
Target:	Melatonin Receptor		
Pathway:	GPCR/G Protein; Neuronal Signaling		
Storage:	Powder	-20°C	3 years
	In solvent	-80°C	6 months
		-20°C	1 month



BIOLOGICAL ACTIVITY

Description	2-Iodomelatonin is a potent agonist of melatonin receptor 1 (MT ₁) with a K _i value of 28 pM, it is more 5-fold selective for MT ₁ over MT ₂ ^[1] . 2-iodomelatonin can be used to identify, characterize and localize melatonin binding sites in the brain and peripheral tissues ^[1] .								
In Vitro	<p>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].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p> <p>Cell Viability Assay^[2]</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 30%;">Cell Line:</td> <td>Mutant htt ST14A cell</td> </tr> <tr> <td>Concentration:</td> <td>0 μM; 1 μM; 5 μM; 7.5 μM</td> </tr> <tr> <td>Incubation Time:</td> <td>18 hours</td> </tr> <tr> <td>Result:</td> <td>Inhibited mutant htt ST14A cell death.</td> </tr> </table>	Cell Line:	Mutant htt ST14A cell	Concentration:	0 μM; 1 μM; 5 μM; 7.5 μM	Incubation Time:	18 hours	Result:	Inhibited mutant htt ST14A cell death.
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REFERENCES

[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.

Caution: Product has not been fully validated for medical applications. For research use only.

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