

GR 196429

Chemical Properties

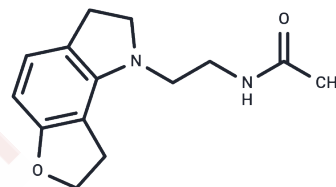
CAS No. : 170729-12-1

Formula: C₁₄H₁₈N₂O₂

Molecular Weight: 246.3

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	GR 196429, a melatonin receptor agonist, exhibits selectivity for the MT1 subtype. This compound not only promotes sleep and alters circadian rhythms but also stimulates melatonin release in mice.
Targets(IC50)	Others, Melatonin Receptor

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.0601 mL	20.3004 mL	40.6009 mL
5 mM	0.812 mL	4.0601 mL	8.1202 mL
10 mM	0.406 mL	2.030 mL	4.0601 mL
50 mM	0.0812 mL	0.406 mL	0.812 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

Hardeland R. Melatonin and Synthetic Melatonergic Agonists in Psychiatric and Age-associated Disorders: Successful and Unsuccessful Approaches. *Curr Pharm Des.* 2016;22(8):1086-101. Review. PubMed PMID: 25248806.

Drijfhout WJ, de Vries JB, Homan EJ, Brons HF, Coppinga S, Gruppen G, Beresford IJ, Hagan RM, Grol CJ, Westerink BH. Novel non-indolic melatonin receptor agonists differentially entrain endogenous melatonin rhythm and increase its amplitude. *Eur J Pharmacol.* 1999 Oct 15;382(3):157-66. PubMed PMID: 10556666.

Lew MJ, Flanders S. Mechanisms of melatonin-induced vasoconstriction in the rat tail artery: a paradigm of weak vasoconstriction. *Br J Pharmacol.* 1999 Mar;126(6):1408-18. PubMed PMID: 10217535; PubMed Central PMCID: PMC1565908.

Beresford IJ, Browning C, Starkey SJ, Brown J, Foord SM, Coughlan J, North PC, Dubocovich ML, Hagan RM. GR196429: a nonindolic agonist at high-affinity melatonin receptors. *J Pharmacol Exp Ther.* 1998 Jun;285(3):1239-45. PubMed PMID: 9618428.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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