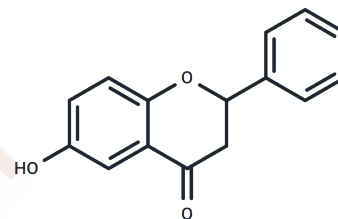


6-Hydroxyflavanone

Chemical Properties

CAS No. :	4250-77-5
Formula:	C ₁₅ H ₁₂ O ₃
Molecular Weight:	240.25
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	6-Hydroxyflavanone, extracted from the leaves of Acorus calamus, exhibits anti-inflammatory and anti-neuropathic pain activity by targeting cyclooxygenase-2 (COX-2), 5-lipoxygenase (5-LOX), as well as opioid and GABA-A receptors. 6-Hydroxyflavanone has anti-injury sensory properties in a streptozotocin-induced diabetic neuropathy model. in a streptozotocin-induced diabetic neuropathy model with anti-injury sensory properties.
Targets(IC50)	Opioid Receptor,GABA Receptor,COX,Lipoxygenase
In vivo	6-Hydroxyflavanone (6-HF) (6-HF) (5, 30, and 60 mg/kg) inhibited the COX-2 and 5-LOX enzymes significantly. It substantially reduced heat nociception in a hot plate analgesia meter, as well as carrageenan-induced paw edema in rodent models. The authors discovered that 6-HF exhibited anti-nociception properties in a streptozotocin-induced diabetic neuropathy (DIN) model. According to the findings of this study, 6-HF demonstrated the ability to diminish inflammation caused by diabetes, as well as to exert an anti-nociceptive.[3]

Solubility Information

Solubility	DMSO: 2.41 mg/mL (10.03 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.1623 mL	20.8117 mL	41.6233 mL
5 mM	0.8325 mL	4.1623 mL	8.3247 mL
10 mM	0.4162 mL	2.0812 mL	4.1623 mL
50 mM	0.0832 mL	0.4162 mL	0.8325 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

Nishizaki Y, et al. Effect of flavonoids on androgen and glucocorticoid receptors based on in vitro reporter gene assay. *Bioorg Med Chem Lett*. 2009;19(16):4706-4710.

Akbar S, et al. Targeting Anti-Inflammatory Pathways to Treat Diabetes-Induced Neuropathy by 6-Hydroxyflavanone. *Nutrients*. 2023;15(11):255

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