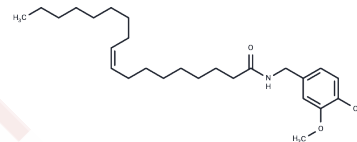


Olvanil

Chemical Properties

CAS No. :	58493-49-5
Formula:	C ₂₆ H ₄₃ NO ₃
Molecular Weight:	417.62
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	Olvanil (N-Vannilyloleoylamide) is a vanilloid receptor agonist with EC ₅₀ of 0.7nM.
Targets(IC ₅₀)	TRP/TRPV Channel
In vitro	Olvanil inhibits C6 glioma cell proliferation with an IC ₅₀ of 5.5 μM[2].
In vivo	Olvanil is one capsaicin analog. Olvanil acts as an agonist at the vanilloid receptor. Olvanil may have causes an anxiogenic-like effect. Doses of 0, 0.2, 1.0 and 5.0 mg/kg Olvanil, respectively, yielded percent open arm entries at 5 min of 25±10.1, 19.3±7.1, 14.9±5.9 and 0±0[3].

Solubility Information

Solubility	DMSO: 18 mg/mL (43.1 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	2.3945 mL	11.9726 mL	23.9452 mL
5 mM	0.4789 mL	2.3945 mL	4.789 mL
10 mM	0.2395 mL	1.1973 mL	2.3945 mL
50 mM	0.0479 mL	0.2395 mL	0.4789 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

Giovanni Appendino, et al. Development of the first ultra-potent "capsaicinoid" agonist at transient receptor potential vanilloid type 1 (TRPV1) channels and its therapeutic potential. J Pharmacol Exp Ther. 2005 Feb;312(2): 561-70.

S O Jacobsson, et al. Inhibition of rat C6 glioma cell proliferation by endogenous and synthetic cannabinoids. Relative involvement of cannabinoid and vanilloid receptors. J Pharmacol Exp Ther. 2001 Dec;299(3):951-9.

John W Kasckow, et al. Effects of the vanilloid agonist olvanil and antagonist capsazepine on rat behaviors. Prog Neuropsychopharmacol Biol Psychiatry. 2004 Mar;28(2):291-5.

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