N-Vanillyldecanamide

Cat. No.: HY-N5099

CAS No.: 31078-36-1

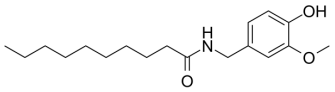
Molecular Formula: $C_{18}H_{29}NO_3$

Molecular Weight: 307.43

Target: Others

Pathway: Others

Storage: 4°C, protect from light
* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 250 mg/mL (813.19 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	3.2528 mL	16.2639 mL	32.5277 mL
	5 mM	0.6506 mL	3.2528 mL	6.5055 mL
	10 mM	0.3253 mL	1.6264 mL	3.2528 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: 2.08 mg/mL (6.77 mM); Suspended solution; Need ultrasonic
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 2.08 mg/mL (6.77 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 2.08 mg/mL (6.77 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

N-Vanillyldecanamide, a capsaicinoid isolated from the fruits of Capsicum annuum, significantly reduced the radical length of Lactuca sativa seedling in a dose-dependent manner[1].

In Vivo

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Rongrong Wang, et al. Capsaicinoids from hot pepper (Capsicum annuum L.) and their phytotoxic effect on seedling growth of lettuce (Lactuca sativa L.). Nat Prod Res. 2020 Jun;34(11):1597-1601.

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

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