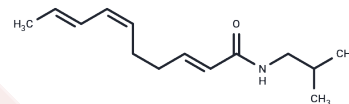


Spilanthol

Chemical Properties

CAS No. :	25394-57-4
Formula:	C ₁₄ H ₂₃ NO
Molecular Weight:	221.34
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	Spilanthol, an orally active compound with analgesic, neuroprotective, antioxidant, antimutagenic, anti-cancer, anti-inflammatory, antimicrobial, and insecticidal properties, facilitates the induction of cAMP, thereby inhibiting the negative regulation of the urinary concentration mechanism. It is also utilized in diuretic research [1] [4] [5].
Targets(IC50)	Antibacterial
In vitro	Spilanthol (50~150 μM, 24h) does not affect the viability of A549 human lung epithelial cells [3].
In vivo	Spilanthol (1-1.875 mg/kg, IP, once) exhibited analgesic effects in male ICR mouse models induced by acetic acid writhing and capsaicin paw licking [2]. Spilanthol (30 mg/kg, orally, once daily for four days) protected against intestinal mucositis in Swiss mice induced by 5-Fluorouracil [4]. Additionally, Spilanthol (800 mg/kg, orally, administered once) acted as a diuretic in adult male C57BL/6J mice [5].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.5179 mL	22.5897 mL	45.1794 mL
5 mM	0.9036 mL	4.5179 mL	9.0359 mL
10 mM	0.4518 mL	2.259 mL	4.5179 mL
50 mM	0.0904 mL	0.4518 mL	0.9036 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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