Data Sheet (Cat.No.T40205)



Posovolone

Chemical Properties

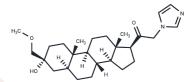
CAS No.: 256955-84-7

Formula: C26H40N2O3

Molecular Weight: 428.617

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



Biological Description

Description	Posovolone (Co 134444), an orally active neuroactive steroid with sedative-hypnotic properties, exhibits anticonvulsant and anxiolytic-like activities, alongside ataxic effects.
In vitro	In mice, the administration of Co 134444, ranging from 0.5-10 mg/kg intraperitoneally (IP, 15 min) and 1-60 mg/kg orally (PO; 30 min), is effective against pentylenetetrazol (PTZ)-induced seizures, achieving a median effective dose (ED50) of 3.3 mg/kg for IP and 9.8 mg/kg for oral administration. Similarly, Co 134444 demonstrates efficacy in protecting against maximal electroshock (MES)-induced seizures, with an ED50 of 4.8 mg/kg when administered IP and 20.6 mg/kg PO. In rats, oral administration of Co 134444 (10-40 mg/kg; PO; 30 min) effectively counters both PTZ and MES-induced seizures, with an ED50 of 23.6 mg/kg and 25.3 mg/kg, respectively.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.3331 mL	11.6653 mL	23.3307 mL
5 mM	0.4666 mL	2.3331 mL	4.6661 mL
10 mM	0.2333 mL	1.1665 mL	2.3331 mL
50 mM	0.0467 mL	0.2333 mL	0.4666 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.

Reference

Vanover KE, et al. Behavioral characterization of Co 134444 (3alpha-hydroxy-21-(1'-imidazolyl)-3beta-methoxymethyl-5alpha- pregnan-20-one), a novel sedative-hypnotic neuroactive steroid. Psychopharmacology

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