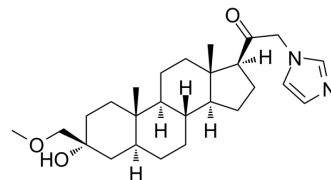


Posovolone

Cat. No.:	HY-141795		
CAS No.:	256955-84-7		
Molecular Formula:	C ₂₆ H ₄₀ N ₂ O ₃		
Molecular Weight:	428.61		
Target:	Others		
Pathway:	Others		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (233.31 mM; Need ultrasonic)				
		Solvent Concentration	Mass 1 mg	5 mg	10 mg
	Preparing Stock Solutions	1 mM	2.3331 mL	11.6656 mL	23.3312 mL
		5 mM	0.4666 mL	2.3331 mL	4.6662 mL
10 mM		0.2333 mL	1.1666 mL	2.3331 mL	
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.5 mg/mL (5.83 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	Posovolone (Co 134444) is an orally active, neuroactive steroid. Posovolone has anticonvulsant and anxiolytic-like activity as well as ataxic effects ^[1] .
In Vitro	In mice, Co 134444 (0.5-10 mg/kg, IP, 15 min; 1-60 mg/kg, PO; 30 min) demonstrates efficacy against pentylenetetrazol (PTZ)-induced seizures with an ED ₅₀ of 3.3 mg/kg after IP administration and 9.8 mg/kg orally. Similarly, protection against maximal electroshock (MES) is observed with an ED ₅₀ of 4.8 mg/kg IP and 20.6 mg/kg PO. In rats, Co134444 (10-40 mg/kg; PO; 30 min) protects against PTZ-induced seizures and MES-induced seizures with an ED ₅₀ of 23.6 mg/kg and 25.3 mg/kg, respectively ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. 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 (Berl)*. 2001;155(3):285-291.

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

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