

## Product Data Sheet

Product Name: Posovolone

Cat. No.: GC64211

### Chemical Properties

Cas. No. 256955-84-7

Formula C<sub>26</sub>H<sub>40</sub>N<sub>2</sub>O<sub>3</sub>

M.Wt 428.61

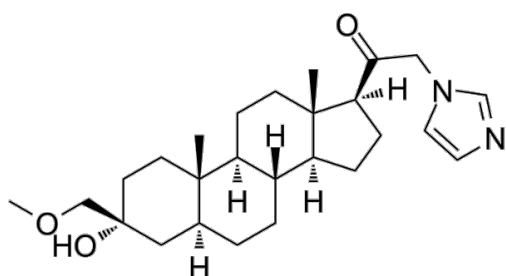
Solubility DMSO : 100 mg/mL (233.31 mM;  
Need ultrasonic)

Storage Store at -20°C

General tips For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.

Structure



### Background

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

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Posovolone (Co 134444) is an orally active, neuroactive steroid. Posovolone has anticonvulsant and anxiolytic-like activity as well as ataxic effects[1].

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 ED50 of 3.3 mg/kg after IP administration and 9.8 mg/kg orally. Similarly, protection against maximal electroshock (MES) is observed with an ED50 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 ED50 of 23.6 mg/kg and 25.3 mg/kg, respectively[1].

[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.

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