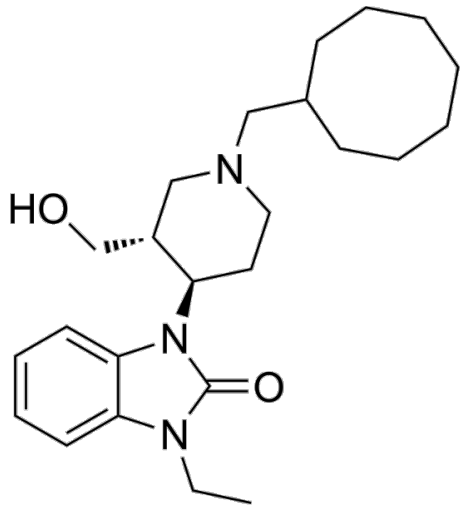
# Product Data Sheet

Product Name: J-113397
Cat. No.: GC70385

## Chemical Properties

| | | | |
|---|---|---|---|
| Cas. No. | 256640-45-6 | | |
| Formula | $C_{24}H_{37}N_3O_2$ | M.Wt | 399.57 |
| Solubility | DMSO : ≥ 300 mg/mL (750.81 mM) | Storage | 4°C, sealed storage, away from moisture |
| 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

J-113397 is the first potent and selective nonpeptidyl ORL1 receptor antagonist (Ki: cloned human ORL1=1.8 nM) without any agonistic effects on other opioid receptors.

J-113397 (0-500 nM) inhibits NociceptinNociceptin/orphanin FQ -stimulated [$^{35}$S]GTPγS binding to CHO cells expressing ORL1 (CHO-ORL1) but had no effect on [$^{35}$S]GTPγS binding by itself[1].

J-113397 (0-30 mg/kg; subcutaneously (s.c.); once) dose-dependently inhibits hyperalgesia elicited

by intracerebroventricular (i.c.v.) administration of NociceptinNociceptin/orphanin FQ in a tail-flick test with mice[1].