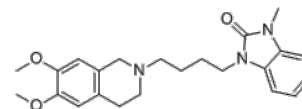


Product Name : CM-398
Cat. No. : PC-21109
CAS No. : 1121931-70-1
Molecular Formula : C₂₃H₂₉N₃O₃
Molecular Weight : 395.50
Target : Sigma Receptor
Solubility : 10 mM in DMSO



CAS: 1121931-70-1

Biological Activity

CM-398 (CM398) is a potent, highly selective sigma-2 receptor (**σ2R**) ligand with K_i of 0.43 nM, >1000-fold selective over σ1R, produces antinociception and anti-allodynia effects.

CM398 showed promising anti-inflammatory analgesic effects in the formalin model of inflammatory pain in mice.

CM-398 dose-dependently (10-45 mg/kg i.p.) reduced mechanical allodynia in the CCI neuropathic pain model, equivalent at the higher dose to the effect of the control analgesic gabapentin (50 mg/kg i.p.).

M-398 dose-dependently produced antinociception in the acetic acid writhing test (ED₅₀ (and 95% C.I.) = 14.7 (10.6–20) mg/kg, i.p.) and the formalin assay (ED₅₀ (and 95% C.I.) = 0.86 (0.44–1.81) mg/kg, i.p.) but was without effect in the 55 °C warm-water tail-withdrawal assay.

References

Intagliata S., et al. *AAPS J.* 2020;22:94.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com