

Cat No. 06-R16

PRE-084

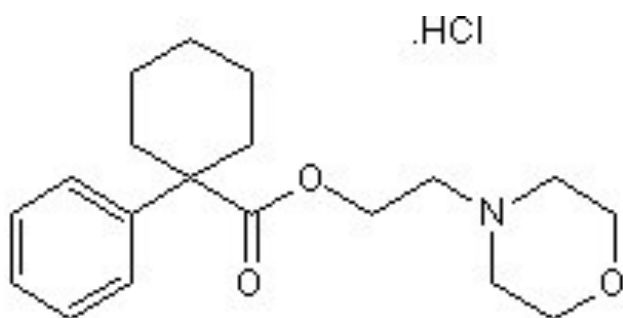


10mg

For research purposes only

PRE-084 is a high affinity sigma receptor agonist, selective for the σ_1 subtype. It is a potent ligand of the σ receptor without much affinity for the PCP receptors.

TECHNICAL INFORMATION



Other Names: 2-(4-morpholinethyl)1-phenylcyclohexanecarboxylate hydrochloride

Chemical Formula: C₁₉H₂₇NO₃ -HCL

CAS Number: 138847-85-5

PubChem Substance ID: 126402

Molecular Weight: 353.9

Purity: >99%

Appearance: White Solid

Solubility: DMSO

IC₅₀ : 100000 nM

STORAGE AND HANDLING

Storage: Store at 4°C and protected from light. Following reconstitution, store aliquots at -20°C.

Stability: Stock solutions stable at -20°C for up to 2 years.

Shipping Conditions: Shipped at room temperature.

PRODUCT USE

Soluble in DMSO.

REFERENCES

1. Griesmaier, E., et al (2012). Neuroprotective effects of the sigma-1 receptor ligand PRE-084 against excitotoxic perinatal brain injury in newborn mice. *Exp neurol.* 237:388-95.
2. Allahtavakoli, M., et al (2011). Sigma-1 receptor ligand PRE-084 reduced infarct volume, neurological deficits, pro-inflammatory cytokines and enhanced anti-inflammatory cytokines after embolic stroke in rats. *Brain res bull.* 85:219-24.
3. Skuza, G., et al (2009). Antidepressant-like effect of PRE-084, a selective sigma1 receptor agonist, in Albino Swiss and C57BL/6J mice. *Pharmacol Rep.* 61:1179-83.