

**Product Name** : A-1048400

**Synonyms** : A1048400

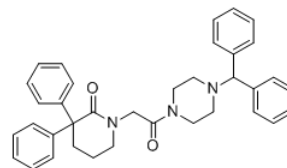
**Cat No.** : M10826

**CAS Number** : 1219624-62-0

**Molecular Formula** : C36H37N3O2

**Formula Weight** : 543.71

**Chemical Name** : 1-(2-(4-benzhydrylpiperazin-1-yl)-2-oxoethyl)-3,3-diphenylpiperidin-2-one



**Description** : A novel potent, selective, orally active N-type and T-type calcium channel blocker with IC50 of 1.4 and 1.2 uM, respectively; shows no significant activity against L-type Ca2+ channels (IC50=28 uM); reverses tactile allodynia in model of capsaicin-induced secondary hypersensitivity (EC50=300-365 ng/ml), without effect on hemodynamic function; blocks native N- and T-type Ca2+ currents in rat dorsal root ganglion neurons (IC50=3.0 and 1.6 uM), attenuates nociceptive, neuropathic and inflammatory pain in vivo. Pain Discontinued

**Pathway** : GPCR/G Protein

**Target** : Calcium Channel

**Receptor** : Calcium Channel

**Solubility** : 10 mM in DMSO

**SMILES** : O=C1N(CC(N2CCN(C(C3=CC=CC=C3)C4=CC=CC=C4)CC2)=O)CCCC1(C5=CC=CC=C5)C6=CC=CC=C6

**Storage** : (-20°C)

**Stability** : ≥ 2 years

**Reference** :

1. Scott VE, et al. Biochem Pharmacol. 2012 Feb 1;83(3):406-18.