

Product Name : LY 2456302

Synonyms : CERC-501;JSPA 0658;Aticaprant

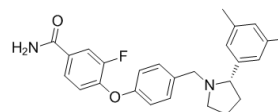
Cat No. : M10590

CAS Number : 1174130-61-0

Molecular Formula : C₂₆H₂₇FN₂O₂

Formula Weight : 418.51

Chemical Name : 4-(4-(((2S)-2-(3,5-dimethylphenyl)-1-pyrrolidinyl)methyl)phenoxy)-3-fluoro-benzamide



Description : LY 2456302 (CERC-501, JSPA 0658, Aticaprant) is a potent, selective, short-acting antagonist of κ-opioid receptor (KOR) with K_i of 0.81 nM; displays >30-fold selectivity over MOR and DOR; selectively and potently occupies central kappa opioid receptors in vivo (ED₅₀=0.33 mg/kg); produces antidepressant-like effects in the mouse forced swim test and enhanced the effects of imipramine and citalopram; orally-bioavailable and excellent pharmacokinetic properties. Depression Phase 2 Clinical

Pathway : Endocrinology/Hormones

Target : Opioid Receptor

Receptor : Opioid Receptor

Solubility : DMSO : ≥ 100 mg/mL 238.95 mM

SMILES : O=C(N)C1=CC=C(OC2=CC=C(CN3[C@H](C4=CC(C)=CC(C)=C4)CCC3)C=C2)C(F)=C1

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Rorick-Kehn LM, et al. Neuropharmacology. 2014 Feb;77:131-44.| 2. Jackson KJ, et al. Neuropharmacology. 2015 Oct;97:270-4.| 3. Naganawa M, et al. J Pharmacol Exp Ther. 2016 Feb;356(2):260-6.