

Product Name : Z-944

Synonyms : Z944

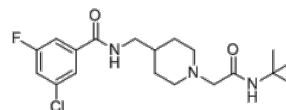
Cat No. : M10714

CAS Number : 1199236-64-0

Molecular Formula : C₁₉H₂₇ClFN₃O₂

Formula Weight : 383.89

Chemical Name : N-[[1-[2-(tert-butylamino)-2-oxoethyl]piperidin-4-yl]methyl]-3-chloro-5-fluorobenzamide



Description : Z-944 is a potent, highly selective and oral T-type calcium channel blocker with IC₅₀ of 50-160 nM for human Cav3.1, Cav3.2, and Cav3.3 channels; displays 70 times more potent for T-type blockade than for blockade of the N-type channel (IC₅₀=11 uM); potently suppress seizure activity and attenuates burst firing of thalamic reticular nucleus neurons in the GAERS model of absence epilepsy; restores cortical synchrony and thalamocortical connectivity in a rat model of neuropathic pain. Pain Phase 1 Clinical

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : Calcium Channel

Solubility : —

SMILES : O=C(NCC1CCN(CC(NC(C)(C)C)=O)CC1)C2=CC(F)=CC(Cl)=C2

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Tringham E, et al. Sci Transl Med. 2012 Feb 15;4(121):121ra19. | 2. Casillas-Espinosa PM, et al. PLoS One. 2015 Aug 14;10(8):e0130012. | 3. LeBlanc BW, et al. Pain. 2016 Jan;157(1):255-63.