

Product Name : JTV-519 hydrochloride

Synonyms : K201;JTV519

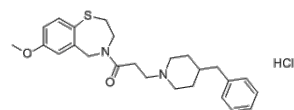
Cat No. : M10192

CAS Number : 1038410-88-6

Molecular Formula : C₂₅H₃₃ClN₂O₂S

Formula Weight : 461.06

Chemical Name : 1-(2,3-Dihydro-7-methoxy-1,4-benzothiazepin-4(5H)-yl)-3-[4-(phenylmethyl)-1-piperidyl]-1-propanone hydrochloride



Description : JTV-519 (K201) is a Ca²⁺-dependent blocker of SERCA and a partial agonist of ryanodine receptors (RyRs); displays Ca(2+)-dependent inhibition of SERCA-dependent ATPase activity with IC₅₀ of 9 μM at 0.25 Ca²⁺ in cardiac muscle; may prevent abnormal Ca(2+) leak from the sarcoplasmic reticulum (SR) in the ischemic heart and skeletal muscle (SkM) by stabilizing the ryanodine receptors (RyRs; RyR1 and RyR2, respectively).Heart Arrhythmia Phase 2 Discontinued

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : Calcium Channel

Solubility : —

SMILES : C1CC(CCN1CCC(=O)N1Cc2c(SCC1)ccc(c2)OC)Cc1ccccc1.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Darcy YL, et al. Mol Pharmacol. 2016 Aug;90(2):106-15.| 2. Inagaki K, et al. Circulation. 2000 Feb 22;101(7):797-804.| 3. Ito K, et al. Br J Pharmacol. 2000 Jun;130(4):767-76.| 4. Nakaya H, et al. Br J Pharmacol. 2000 Dec;131(7):1363-72.