

Product Name : Diltiazem hydrochloride

Synonyms : CRD-401

Cat No. : M14120

CAS Number : 33286-22-5

Molecular Formula : C₂₂H₂₇ClN₂O₄S

Formula Weight : 450.98

Chemical Name : 1,5-Benzothiazepin-4(5H)-one, 3-(acetyloxy)-5-[2-(dimethylamino)ethyl]-2,3-dihydro-2-(4-methoxyphenyl)-, hydrochloride (1:1), (2S,3S)-

Description : A postsynaptic muscle relaxant that inhibits Ca²⁺ ions release from sarcoplasmic reticulum stores; antagonizes ryanodine receptors; can prevent cell death in neural progenitor cells derived from Wolfram syndrome iPS cells. Hypertension Approved

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : CalciumChannel

Solubility : 10 mM in DMSO

SMILES : CC(=O)O[C@H]1[C@@H](SC2=CC=CC=C2N(C1=O)CCN(C)C)C3=CC=C(C=C3)OC.Cl

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Lu S, et al. Proc Natl Acad Sci U S A. 2014 Dec 9;111(49):E5292-301. | 2. Zucchi R, et al. Pharmacol Rev. 1997 Mar;49(1):1-51. | 3. Krause T, et al. Anaesthesia. 2004 Apr;59(4):364-73.

