

Product Name : Cariporide

Synonyms : HOE642;HOE-642

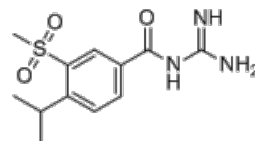
Cat No. : M12272

CAS Number : 159138-80-4

Molecular Formula : C₁₂H₁₇N₃O₃S

Formula Weight : 283.35

Chemical Name : N-(Aminoiminomethyl)-4-(1-methylethyl)-3-(methylsulfonyl)benzamide



Description : Cariporide (HOE642) is a potent, selective sodium-hydrogen exchange subtype 1 (NHE1) inhibitor with IC₅₀ of 50 nM, little to no activity against NHE3 and NHE2 (IC₅₀=3 and 10 μM); inhibits the amiloride sensitive sodium influx in rabbit erythrocytes, reduces the swelling of human platelets induced by intracellular acidification, and delays pH recovery in rat cardiomyocytes; reduces and prevents ventricular premature beats, ventricular tachycardia, and ventricular fibrillation after oral treatment in vivo, shows cardioprotective and antiarrhythmic effects in ischaemic and reperfused hearts. Heart Arrhythmia Phase 2 Discontinued

Pathway : Membrane Transporter/Ion Channel

Target : Sodium Channel

Receptor : NHE2

Solubility : DMSO: 79 mg/mL (278.8 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

SMILES : O=C(N=C(N)N)C1=CC=C(C(C)C)C(S(=O)(C)=O)C1=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Scholz W, et al. Cardiovasc Res. 1995 Feb;29(2):260-8. | 2. Russ U, et al. Pflugers Arch. 1996 Nov-Dec;433(1-2):26-34. | 3. Xue YX, et al. Eur J Pharmacol. 1996 Dec 19;317(2-3):309-16. | 4. Aye NN, et al. Eur J Pharmacol. 1997 Nov 27;339(2-3):121-7.