

Product Name : Gap19 acetate(1507930-57-5,free)

Synonyms : —

Cat No. : M22965

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CAS Number : 1507930-57-5

Molecular Formula : C55H96N14O13

Formula Weight : 1161.44

Chemical Name : —

Description : Gap19 is a peptide that corresponds to a sequence on the cytoplasmic loop (CL) of Cx43. Hemichannel inhibition is due to the binding of Gap19 to the C-terminus (CT) thereby preventing intramolecular CT-CL interactions.[?] The peptide inhibited Cx43 hemichannel unitary currents in both HeLa cells exogenously expressing Cx43 and acutely isolated pig ventricular cardiomyocytes.[?] Treatment with Gap19 prevented metabolic inhibition-enhanced hemichannel openings, protected cardiomyocytes against volume overload and cell death following ischemia/reperfusion in vitro and modestly decreased the infarct size after myocardial ischemia/reperfusion in mice in vivo.[?]

Pathway : Others

Target : Other Targets

Receptor : Cx43

Solubility : —

SMILES : CC[C@]([H])(C)[C@@]([H])/C(O)=N[C@@]([H])(CCCCN)C(O)=N[C@@]([H])(CCCCN)C(O)=N[C@@]([H])
 : (CC1=CC=CC=C1)C(O)=N[C@@]([H])(CCCCN)C(O)=O/N=C([C@]([H])(CCC(O)=O)/N=C([C@]([H])([C@@]([H])
 : (C)CC)N=C([C@]([H])(CCC(O)=N)/N=C([C@]([H])(CCCCN)N\O)\O)\O)\O)O.CC(O)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Boengler K, et al. Connexin 43 impacts on mitochondrial potassium uptake. Front Pharmacol. 2013 Jun 6;4:73.