

Product Name : SERCA2a activator A

Synonyms : Compound A

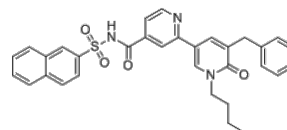
Cat No. : M13416

CAS Number : 2139330-34-8

Molecular Formula : C₃₂H₂₉N₃O₄S

Formula Weight : 551.66

Chemical Name : 5'-benzyl-1'-butyl-N-(naphthalen-2-ylsulfonyl)-6'-oxo-1',6'-dihydro-[2,3'-bipyridine]-4-carboxamide



Description : SERCA2a activator A is a novel sarco/endoplasmic reticulum Ca²⁺-dependent ATPase 2a (SERCA2a) activator that activates the Ca²⁺-dependent ATPase activity of cardiac SR vesicles but not that of skeletal muscle SR vesicles that lack of phospholamban (PLN); binds to PLN (K_d=75 uM), attenuates its inhibition of SERCA2a; enhances systolic and diastolic functions in rat hearts.

Pathway : GPCR/G Protein

Target : Calcium Channel

Receptor : Calcium Channel

Solubility : —

SMILES : O=C(C1=CC(C(C=C2CC3=CC=CC=C3)=CN(CCCC)C2=O)=NC=C1)NS(=O)(C4=CC=C5C=CC=CC5=C4)=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Kaneko M, et al. Eur J Pharmacol. 2017 Nov 5;814:1-8.