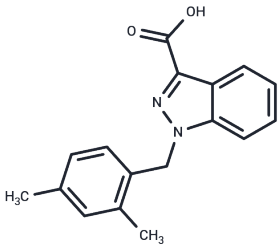
Data Sheet (Cat.No.T35182)

TargetMol

Xinidamine

Chemical Properties



CAS No. : 50264-78-3

Formula: C17H16N2O2

Molecular Weight: 280.32

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Xinidamine (BRN 0891979) has antitumor activity and can be used to study benign prostatic hyperplasia, macular degeneration and prostatic intraepithelial neoplasia . Xinidamine inhibits the proliferation of PWR-1E cells with an IC50 of 4 μM.
Targets(IC50)	Others

Solubility Information

Solubility	DMSO: 50 mg/mL (178.37 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.5674 mL	17.8368 mL	35.6735 mL
5 mM	0.7135 mL	3.5674 mL	7.1347 mL
10 mM	0.3567 mL	1.7837 mL	3.5674 mL
50 mM	0.0713 mL	0.3567 mL	0.7135 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Chen H, et al. Effective platinum(IV) prodrugs conjugated with lonidamine as a functional group working on the mitochondria. J Inorg Biochem. 2018;180:119-128.
Cohen-Erez I, et al. Negatively charged polypeptide-peptide nanoparticles showing efficient drug delivery to the mitochondria. Colloids Surf B Biointerfaces. 2018;162:186-192.
Liu Y, et al. Mitochondrial-Targeting Lonidamine-Doxorubicin Nanoparticles for Synergistic Chemotherapy to Conquer Drug Resistance. ACS Appl Mater Interfaces. 2017;9(50):43498-43507.
Albatany M, et al. Dichloroacetate induced intracellular acidification in glioblastoma: in vivo detection using AACID-CEST MRI at 9.4 Tesla. J Neurooncol. 2018;136(2):255-262.

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481