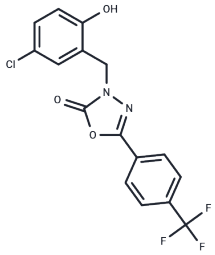
Data Sheet (Cat.No.T7512)

TargetMol

BMS-191011

Chemical Properties



CAS No. : 202821-81-6

Formula: C16H10ClF3N2O3

Molecular Weight: 370.71

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	BMS-191011 (BMS-A) is an activator of large-conductance calcium-activated potassium (BKCa) channels ,effective in stroke models
Targets(IC50)	Potassium Channel
In vivo	In vivo, BMS 191011 (10-100 μg/kg, i.v.) increases the diameter of retinal arterioles without affecting blood pressure or heart rate in rats, an effect that is reversed by the BKCa channel blocker iberiotoxin[1]

Solubility Information

Solubility	DMSO: 125 mg/mL (337.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 4 mg/mL (10.79 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6975 mL	13.4876 mL	26.9753 mL
5 mM	0.5395 mL	2.6975 mL	5.3951 mL
10 mM	0.2698 mL	1.3488 mL	2.6975 mL
50 mM	0.054 mL	0.2698 mL	0.5395 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

Mori A , Suzuki S , Sakamoto K , et al. BMS-191011, an Opener of Large-Conductance Ca2+-Activated Potassium Channels, Dilates Rat Retinal Arterioles in Vivo[J]. Biological & Pharmaceutical Bulletin, 2011, 34(1):150-152.
Hewawasam P . Synthesis of water-soluble prodrugs of BMS-191011: a maxi-K channel opener targeted for post-stroke neuroprotection.[J]. Bioorganic & Medicinal Chemistry Letters, 2003, 13(10):1695-1698.