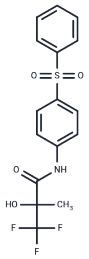
Data Sheet (Cat.No.T23563)

TargetMol

ZM 226600

Chemical Properties



CAS No. : 147695-92-9

Formula: C16H14F3NO4S

Molecular Weight: 373.35

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	ZM 226600 is an ATP-sensitive potassium channel opener with an EC50 value of 500 nM. ZM226600 has an inhibitory effect on spontaneous bladder activity.
Targets(IC50)	Potassium Channel
In vitro	ZM226600 (1 μM, 30 min) inhibited spontaneous bladder activity. [1]
In vivo	ZM226600 (10-1000 nmol/kg, i.v.) did not significantly affect the heart rate in anesthetized rats.[1]

Solubility Information

Solubility	DMSO: 90 mg/mL (241.06 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6785 mL	13.3923 mL	26.7845 mL
5 mM	0.5357 mL	2.6785 mL	5.3569 mL
10 mM	0.2678 mL	1.3392 mL	2.6785 mL
50 mM	0.0536 mL	0.2678 mL	0.5357 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

Pinna C, et al. Effect of the ATP-sensitive potassium channel opener ZM226600 on cystometric parameters in rats with ligature-intact, partial urethral obstruction. Eur J Pharmacol. 2005 ; 516(1):71-77.
Grant TL, et al. Anilide tertiary carbinols: a novel series of K+ channel openers. Trends Pharmacol Sci. 1994 ; 15 (11):402-404.
Jansen-Olesen I, et al. Characterization of K(ATP)-channels in rat basilar and middle cerebral arteries: studies of vasomotor responses and mRNA expression. Eur J Pharmacol. 2005 ; 523(1-3):109-118.

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