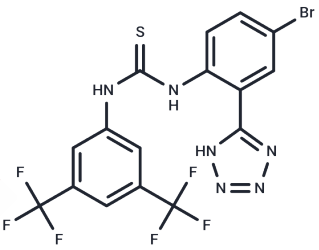
Data Sheet (Cat.No.T4294)

TargetMol

NS 11021

Chemical Properties



CAS No. : 956014-19-0

Formula: C16H9BrF6N6S

Molecular Weight: 511.24

Storage: Keep away from moisture
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	NS 11021 (NS11021) , a novel opener of large-conductance Ca(2+)-activated K(+) channels
Targets(IC50)	Potassium Channel
In vivo	NS11021 increased currents sensitive to the selective BK(Ca) channel blocker, iberiotoxin (IbTX) in SMCs, but did not modulate K(+) current in HUVECs.?NS11021 reduced [Ca(2+)](i) and tension in penile arteries.?IbTX inhibited the vasorelaxation induced by NS11021 and sildenafil in human erectile tissue.?NS11021 and sildenafil but not vehicle increased erectile responses in anaesthetized rats, an effect which was abolished after pretreatment with tetraethylammonium[1].

Solubility Information

Solubility	DMSO: 250 mg/mL (489.01 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: 5 mg/mL (9.78 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	1.956 mL	9.7801 mL	19.5603 mL
5 mM	0.3912 mL	1.956 mL	3.9121 mL
10 mM	0.1956 mL	0.978 mL	1.956 mL
50 mM	0.0391 mL	0.1956 mL	0.3912 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

Kun A , Matchkov V V , Stankevicius E , et al. NS11021, a novel opener of large-conductance Ca(2+)-activated K(+) channels, enhances erectile responses in rats[J]. British Journal of Pharmacology, 2010, 158(6):1465-1476.
Bentzen BH, et al. The small molecule NS11021 is a potent and specific activator of Ca2+-activated big-conductance K+ channels. Mol Pharmacol. 2007 Oct;72(4):1033-44.

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