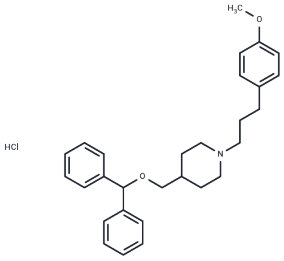
Data Sheet (Cat.No.T23497)

TargetMol

UK 78282 hydrochloride

Chemical Properties



CAS No. : 136647-02-4

Formula: C29H36ClNO2

Molecular Weight: 466.05

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	UK 78282 hydrochloride, a novel potent and selective Kv1.3 blocker.UK 78282 hydrochloride inhibits Kv1.3 voltage-gated potassium channels and suppresses human T cell activation.
Targets(IC50)	Potassium Channel

Solubility Information

Solubility	DMSO: 50 mg/mL (107.28 mM),Sonication is recommended. Ethanol: < 13.98 mg/mL,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: 2 mg/mL (4.29 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	2.1457 mL	10.7285 mL	21.4569 mL
5 mM	0.4291 mL	2.1457 mL	4.2914 mL
10 mM	0.2146 mL	1.0728 mL	2.1457 mL
50 mM	0.0429 mL	0.2146 mL	0.4291 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

D C Hanson,et al. UK-78,282, a novel piperidine compound that potently blocks the Kv1.3 voltage-gated potassium channel and inhibits human T cell activation. Br J Pharmacol. 1999 Apr;126(8):1707-16

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