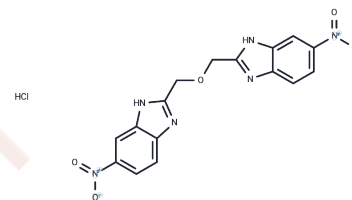


VU591 hydrochloride

Chemical Properties

CAS No. :	1315380-70-1
Formula:	C ₁₆ H ₁₃ ClN ₆ O ₅
Molecular Weight:	404.76
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	VU591 hydrochloride is a selective renal outer medullary potassium channel (Kir1.1, ROMK) antagonist (IC ₅₀ :0.24 μM). Thought to block the intracellular pore of the Kir1.1 channel. Exhibits no effect on Kir7.1 at concentrations up to 10 μM; does not inhibit Kir2.1, Kir2.3 or Kir4.1. Displays similar potency to VU 590
Targets(IC ₅₀)	Potassium Channel

Solubility Information

Solubility	DMSO: 4.33 mg/mL (10.71 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4706 mL	12.353 mL	24.706 mL
5 mM	0.4941 mL	2.4706 mL	4.9412 mL
10 mM	0.2471 mL	1.2353 mL	2.4706 mL
50 mM	0.0494 mL	0.2471 mL	0.4941 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.

Reference

Bhave G, et al. Development of a selective small-molecule inhibitor of Kir1.1, the renal outer medullary potassium channel. Mol Pharmacol. 2011 Jan;79(1):42-50.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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