VU591 hydrochloride

Cat. No.: HY-108585

CAS No.: 1315380-70-1

Molecular Formula: $C_{16}H_{13}ClN_6O_5$

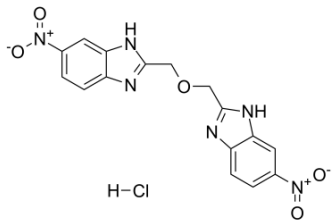
Molecular Weight: 404.76

Target: Potassium Channel

Pathway: Membrane Transporter/Ion Channel

Storage:

Powder	-20°C	3 years
	4°C	2 years
In solvent	-80°C	6 months
	-20°C	1 month



SOLVENT & SOLUBILITY

In Vitro

DMSO : 16.67 mg/mL (41.18 mM; Need ultrasonic)

H_2O : < 0.1 mg/mL (ultrasonic;warming;heat to 60°C) (insoluble)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	2.4706 mL	12.3530 mL	24.7060 mL
5 mM	0.4941 mL	2.4706 mL	4.9412 mL
10 mM	0.2471 mL	1.2353 mL	2.4706 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 1.25 mg/mL (3.09 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

VU591 hydrochloride is a potent, selective renal outer medullary potassium channel (ROMK or Kir1.1) inhibitor, with an IC_{50} of 0.24 μM[1].

IC_{50} & Target

IC50: 0.24 μM (ROMK)[1].

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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