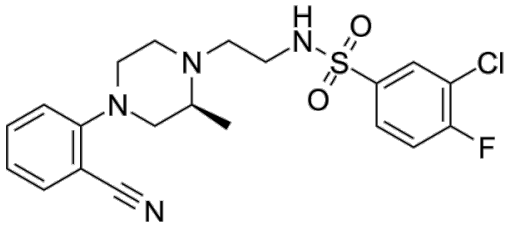
Product Data Sheet

Product Name: VU6036720
Cat. No.: GC71027

Chemical Properties

Cas. No.	3026597-12-3		
Formula	$C_{20}H_{22}ClFN_4O_2S$	M.Wt	436.93
Solubility	DMSO : 75 mg/mL (171.65 mM; Need ultrasonic; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	-20°C, protect from light, stored under nitrogen
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		
Structure			



Background

VU6036720 is a potent and specific in vitro inhibitor of Kir4.1/5.1. VU6036720 can inhibit Kir4.1/5.1 channels with an IC50 value of 0.24 μM. VU6036720 can be used for the research of brain and kidney.

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VU6036720 can inhibit Kir4.1/5.1 channels with an IC_{50} value of 0.24 μM[1].

VU6036720 inhibits Kir4.1/5.1 activity through a reduction of channel open-state probability and single-channel current amplitude[1].

References:

[1]. Samantha J McClenahan, et al. VU6036720: The First Potent and Selective In Vitro Inhibitor of Heteromeric Kir4.1/5.1 Inward Rectifier Potassium Channels. Mol Pharmacol. 2022 May;101(5):357-370.