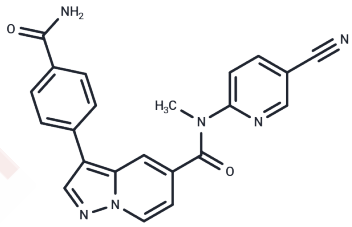
Data Sheet (Cat.No.T15651)

TargetMol

KDU731

Chemical Properties



CAS No. : 1610610-48-4

Formula: C22H16N6O2

Molecular Weight: 396.4

Appearance: no data available

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Biological Description

Description	KDU731 is a promising drug candidate for the treatment of diarrhea caused by Cryptosporidium and meets a broad range of safety. KDU731is an orally active C. parvum inhibitor of PI4K (IC50: 25 nM). KDU731 blocks Cryptosporidium infection in vitro and in vivo.
Targets(IC50)	Others
In vivo	KDU731 (p.o.; 5 mg/kg; every 12 hours for 7 days) is tolerated in all calves, and treated calves shed obviously fewer oocysts than vehicle-treated calves in their stool. KDU731 (p.o.; 7 or 10mg/kg; 16 days) has;effective activity against Cryptosporidium in immunocompromised IFN-γ KO mice and dramatically reduces oocyst shedding[2].

Solubility Information

Solubility	DMSO: 83.33 mg/mL (210.22 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.5227 mL	12.6135 mL	25.227 mL
5 mM	0.5045 mL	2.5227 mL	5.0454 mL
10 mM	0.2523 mL	1.2614 mL	2.5227 mL
50 mM	0.0505 mL	0.2523 mL	0.5045 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

Ward HD, et al. New Tools for Cryptosporidium Lead to New Hope for Cryptosporidiosis. Trends Parasitol. 2017 Sep;33(9):662-664.

Manjunatha UH, et al. A Cryptosporidium PI(4)K inhibitor is a drug candidate for cryptosporidiosis. Nature. 2017 Jun 15;546(7658):376-380.

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