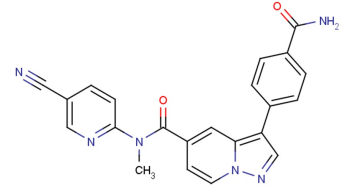


## Data Sheet (Cat.No.T15651)

KDU731

### Chemical Properties

CAS No.:	1610610-48-4
Formula:	C <sub>22</sub> H <sub>16</sub> N <sub>6</sub> O <sub>2</sub>
Molecular Weight:	396.4
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



### Biological Description

Description	KDU731 is a promising drug candidate for the treatment of diarrhea caused by <i>Cryptosporidium</i> and meets a broad range of safety. KDU731 is an orally active <i>C. parvum</i> inhibitor of PI4K (IC <sub>50</sub> : 25 nM). KDU731 blocks <i>Cryptosporidium</i> infection in vitro and in vivo.
Targets(IC <sub>50</sub> )	PI4K: None
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 <i>Cryptosporidium</i> in immunocompromised IFN- $\gamma$ KO mice and dramatically reduces oocyst shedding [2].

### Solubility Information

Solubility	DMSO: 83.33 mg/mL (210.22 mM) ( $< 1$ mg/ml refers to the product slightly soluble or insoluble)
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#### Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.523 mL	12.614 mL	25.227 mL
5 mM	0.505 mL	2.523 mL	5.045 mL
10 mM	0.252 mL	1.261 mL	2.523 mL
50 mM	0.05 mL	0.252 mL	0.505 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

#### Reference

1. Ward HD, et al. New Tools for *Cryptosporidium* Lead to New Hope for Cryptosporidiosis. *Trends Parasitol.* 2017 Sep;33(9):662-664.
2. Manjunatha UH, et al. A *Cryptosporidium* PI(4)K inhibitor is a drug candidate for cryptosporidiosis. *Nature.* 2017 Jun 15;546(7658):376-380.

Inhibitors · Natural Compounds · Compound Libraries

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