

## Product Data Sheet

Product Name: KDU731  
Cat. No.: GC38033

### Chemical Properties

Cas. No. 1610610-48-4

SMILES O=C(C1=CC2=C(C3=CC=C(C(N)=O)C=C3)C=NN2C=C1)N(C)C4=NC=C(C#N)C=C4

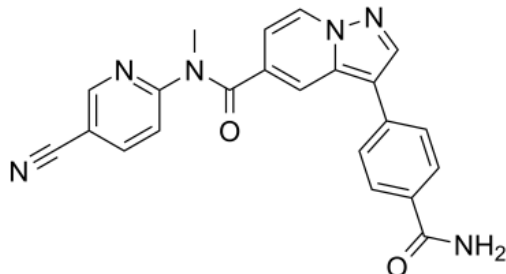
Formula  $C_{22}H_{16}N_6O_2$  M.Wt 396.4

Solubility DMSO: 83.33 mg/mL (210.22 mM) Storage Store at -20°C

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

KDU731, an orally active *C. parvum* PI4K inhibitor with an IC<sub>50</sub> value of 25 nM, blocks *Cryptosporidium* infection in vitro and in vivo[1][2]. KDU731 is a promising drug candidate for the treatment of diarrhea caused by *Cryptosporidium* and meets a broad range of safety[2].

KDU731 (orally administration; 7 or 10mg/kg; 16 days) has potent activity against *Cryptosporidium* in immunocompromised IFN-γ KO mice and dramatically reduces oocyst shedding[2]. KDU731 (orally administration; 5 mg/kg; every 12 hours for 7 days) is tolerated in all calves, and treated calves shed

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

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significantly fewer oocysts than vehicle treated calves in their stool[2]. Animal Model: 6-8 week old C57BL/6 IFN- $\gamma$ -knockout mice with 10,000 oocysts[1]

[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.

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