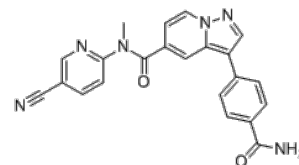


Product Name : KDU731
Cat. No. : PC-62150
CAS No. : 1610610-48-4
Molecular Formula : C₂₂H₁₆N₆O₂
Molecular Weight : 396.41
Target : Parasite
Solubility : 10 mM in DMSO



Biological Activity

KDU731 is a potent, selective parasite *Cryptosporidium* lipid kinase **PI4K** (phosphatidylinositol-4-OH kinase) inhibitor with IC₅₀ of 25 nM, displays >50-fold selectivity window against the human PI4K III β homologue.

KDU731 shows HepG2 CC₅₀ of 15.6 μ M and *C. parvum* CPE EC₅₀ of 0.1 μ M.

KDU731 demonstrates a potent reduction in intestinal infection of immunocompromised mice after oral treatment, also leads to rapid resolution of diarrhoea and dehydration in neonatal calves, a clinical model of cryptosporidiosis that closely resembles human infection.

References

Manjunatha UH, et al. *Nature*. 2017 Jun 15;546(7658):376-380.

Ward HD. *Trends Parasitol*. 2017 Sep;33(9):662-664.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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