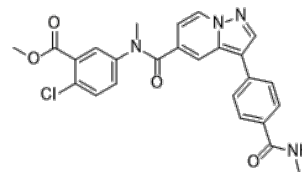


**Product Name** : EDI048  
**Cat. No.** : PC-23131  
**CAS No.** : 2767264-57-1  
**Molecular Formula** : C<sub>25</sub>H<sub>21</sub>ClN<sub>4</sub>O<sub>4</sub>  
**Molecular Weight** : 476.92  
**Target** : Parasite  
**Solubility** : 10 mM in DMSO



CAS: 2767264-57-1

### Biological Activity

EDI048 (EDI-048) is a specific, ATP-competitive, gastrointestinal-targeted Cryptosporidium PI(4)K (**CpPI(4)K**) inhibitor with IC<sub>50</sub> of 4 nM, >300-fold with human orthologue HsPI(4)K, demonstrates in vitro anti-Cryptosporidium activity (Cp CPE, EC<sub>50</sub>=52 nM).

EDI048 is a potent CpPI(4)K inhibitor (IC<sub>50</sub> = 5.2 nM) with anti-parasitic activity against both *C. parvum* and *C. hominis*, is active on Cryptosporidium in the gastrointestinal epithelium in the mouse model.

EDI048 demonstrated dose-dependent efficacy with a 0.3, 1.1 and 3.1 log reduction in oocyst shedding at 1, 3 and 10 mg kg<sup>-1</sup> doses, respectively.

EDI048 is a soft drug in all tested preclinical species and had no human-specific metabolites, warranting further safety and efficacy profiling.

EDI048 blocks membrane biogenesis, preventing the formation of functional merozoites.

### References

Manjunatha UH, et al. *Nat Microbiol.* 2024 Oct 8. doi: 10.1038/s41564-024-01810-x.

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

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