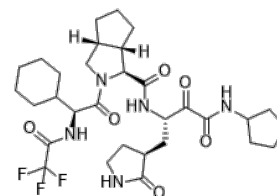


Product Name : Leritrelvir
Cat. No. : PC-22071
CAS No. : 2923310-64-7
Molecular Formula : C₃₁H₄₄F₃N₅O₆
Molecular Weight : 639.72
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



CAS: 2923310-64-7

Biological Activity

Leritrelvir (RAY1216) is a potent, selective peptidomimetic inhibitor of **SARS-CoV-2 main protease (Mpro)** with K_i of 8.4 nM.

RAY1216 displays high potency against different SARS-CoV-2 variants with EC₅₀ of 116 nM (wild type (WT)), 80 nM (Alpha), 88 nM (Beta), 69 nM (Delta), 81 nM (Omicron BA.1), 91 nM (Omicron BA.5) and 135 nM (Omicron XBB.1.9.1).

RAY1216 (150-600 mg/kg) effectively prolonged survival of mice infected with SARS-CoV-2, significantly decreased lung viral titres.

RAY1216 possesses superior drug-target residence time, when compared with PF-07321332 (nirmatrelvir), the active antiviral component in Paxlovid.

References

Chen X, et al. *Nat Microbiol.* 2024 Apr;9(4):1075-1088.

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

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