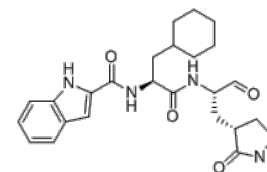


Product Name : FB2001
Cat. No. : PC-21450
CAS No. : 2103278-86-8
Molecular Formula : C₂₅H₃₂N₄O₄
Molecular Weight : 452.56
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



CAS: 2103278-86-8

Biological Activity

Bofutrelvir (FB2001) is a potent, selective and covalent SARS-CoV-2 main protease (**Mpro**) inhibitor with IC₅₀ value of 53 nM.

Bofutrelvir (FB2001) covalently binds to cysteine 145 of Mpro.

Bofutrelvir (FB2001) shows antiviral activity against several current SARS-CoV-2 variants in vitro.

Bofutrelvir (FB2001) potently inhibits the replication of SARS-CoV-2 variants (B.1.1.7 (Alpha): EC₅₀=0.39 μM, B.1.351 (Beta): EC₅₀=0.28 μM; B.1.617.2 (Delta): EC₅₀=0.27 μM; B.1.1.529 (Omicron): EC₅₀=0.26 μM) in Vero E6 cells.

Combined treatment with remdesivir and FB2001 exhibits an additive effect against SARS-CoV-2 in vitro.

Bofutrelvir (FB2001) (100 mpk) exhibits in vivo inhibitory activity of FB2001 in K18-hACE2 mice model of SARS-CoV-2 delta variant infection.

References

Shang W, et al. *Antiviral Res.* 2022 Dec;208:105450.

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

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