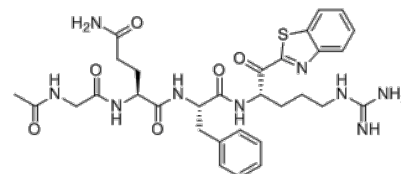


Product Name : MM3122
Cat. No. : PC-38259
CAS No. : 2574390-27-3
Molecular Formula : C₃₁H₃₉N₉O₆S
Molecular Weight : 665.77
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



Biological Activity

MM3122 (MM-3122) is a selective inhibitor of host cell serine protease **TMPRSS2** with IC₅₀ of 0.34 nM against recombinant full-length TMPRSS2 protein.

MM3122 inhibits cytopathic effects induced by SARS-CoV-2 virus in Calu-3 cells with EC₅₀ of 74 nM.

MM3122 blocks host cell entry into Calu-3 human lung epithelial cells of a newly developed VSV-SARS-CoV-2 chimeric virus (EC₅₀=0.43 nM), an EC₅₀ of 74 nM in inhibiting cytopathic effects induced by SARS-CoV-2 virus in Calu-3 cells.

MM3122 inhibits VSV pseudotype MERS viral entry into human Calu-3 lung epithelial cells with EC₅₀ of 0.87 nM.

MM3122 has excellent pharmacokinetics (PK) and safety in mice and is thus a promising lead candidate drug for COVID-19 treatment.

References

Mahoney M, et al. *Proc Natl Acad Sci U S A*. 2021 Oct 26;118(43):e2108728118.

Mahoney M, et al. *bioRxiv*. 2021 May 6:2021.05.06.442935.

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

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