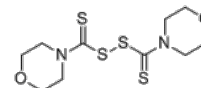


Product Name : RI173
Cat. No. : PC-47067
CAS No. : 729-46-4
Molecular Formula : C₁₀H₁₆N₂O₂S₄
Molecular Weight : 324.490
Target : SARS-CoV-2 Inhibitors
Solubility : 10 mM in DMSO



Biological Activity

RI173 is a potent, covalent, triple-acting inhibitor of SARS-CoV-2 protease Mpro, PLpro and human cathepsin L with IC₅₀ of 0.6 μM, 0.2 μM and 1.7 μM, respectively.

RI173 covalently reacts to the active cysteine residue of SARS-CoV-2 Mpro (Cys 145) and PLpro (Cys111), exhibits 10-fold more potent than disulfiram against SARS-CoV-2 protease.

RI173 exhibits antiviral activity in a narrow range from approximately 100 to 200 nM in SARS-CoV-2 infectivity cells-based assays.

RI173 also shows greater antiviral effect and less toxicity than disulfiram.

References

Meewan I, et al. Pharmaceuticals (Basel). 2022 Jun 13;15(6):744.

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

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