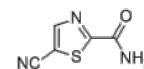


Product Name : 2-TCPA
Cat. No. : PC-38907
CAS No. : 2136639-04-6
Molecular Formula : C₅H₃N₃OS
Molecular Weight : 153.159
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

2-TCPA is a potent, specific inhibitor of carbamoyl-phosphate synthetase, aspartate transcarbamoylase, and dihydroorotase (CAD), suppresses SARS-CoV-2 replication in Caco-2 cells with IC₅₀ of 2.36 μM.

2-TCPA efficiently inhibited RelA deamidation in Caco-2 cells expressing Nsp9.

2-TCPA increased the expression of NF-κB-responsive genes, such as IL-6, IL-8, and CCL5, in a dose-dependent manner in HEK293T cells infected with Sendai virus.

2-TCPA also greatly elevated TNFA, NFKB1A, and CCL5 expression in SARS-CoV-2-infected Calu-3 cells.

2-TCPA potently inhibited SARS-CoV-2 replication in a dose-dependent manner in NHBE.

2-TCPA inhibits SARS-CoV-2 replication in mouse models, reduced SARS-CoV-2 load in the lung, reduced viral RNA content and reduced N protein expression in both alveoli and bronchioli areas.

References

Chao Qin, et al. Proc Natl Acad Sci U S A. 2022 Jun 28;119(26):e2122897119.

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

E-mail: tech@probechem.com