

Mpro inhibitor N3 hemihydrate

Chemical Properties

CAS No. :

Formula:

Molecular Weight:

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Mpro inhibitor N3 hemihydrate is a potent antagonist of the SARS-CoV-2 main protease (Mpro), with an EC ₅₀ of 16.77 μ M against SARS-CoV-2. It specifically inhibits Mpro in various coronaviruses, including SARS-CoV, MERS-CoV, HCoV-229E (IC ₅₀ 4.0 μ M), FIPV (IC ₅₀ 8.8 μ M), and MHV-A59 (IC ₅₀ 2.7 μ M) [1][2].
Targets(IC50)	Others,SARS-CoV,Virus Protease
In vitro	Mpro inhibitor N3 hemihydrate (0-0.64 μ M) is able to penetrate cells to inhibit the replication of IBV viruses, probably at the beginning of infection in embryos[3].

Reference

Jin Z, et al. Structure of Mpro from SARS-CoV-2 and discovery of its inhibitors. Nature. 2020;582(7811):289-293.

Yang H, et al. Design of wide-spectrum inhibitors targeting coronavirus main proteases [published correction appears in PLoS Biol. 2005 Nov;3(11):e428]. PLoS Biol. 2005;3(10):e324.

Wang F, et al. Structure of Main Protease from Human Coronavirus NL63: Insights for Wide Spectrum Anti-Coronavirus Drug Design. Sci Rep. 2016;6:22677. Published 2016 Mar 7.

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