

CTSL/B-IN-1

Chemical Properties

CAS No. :

Formula: C41H47N7O6S

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	CTSLCTSB-IN-1 (Compound212-148) is a dual-specificity inhibitor targeting the host virus spike cleavage proteins CTSL/CTSB and TMPRSS2, with IC50 values of 2.13/64.07 nM and 1.38 μM, respectively. By inhibiting the cleavage of viral spike proteins, CTSLCTSB-IN-1 obstructs two critical entry pathways of the SARS-CoV-2 virus, making it useful for anti-SARS-CoV-2 research.
Targets(IC50)	Cysteine Protease,SARS-CoV
In vitro	CTSLCTSB-IN-1 demonstrates significant antiviral activity in Calu-3 cells infected with clinically isolated SARS-CoV-2 δ or omicron BA.2 strains at concentrations of (10 ⁻³ -10 ⁵ nM, 1h).

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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