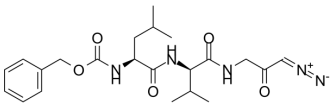
Z-L(D-Val)G-CHN2

Cat. No.:	HY-108137A
Molecular Formula:	$C_{22}H_{31}N_5O_5$
Molecular Weight:	445.51
Target:	Cathepsin; HSV; SARS-CoV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	-20°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



BIOLOGICAL ACTIVITY

Description	Z-L(D-Val)G-CHN2 is the isoform of Z-LVG-CHN2 (HY-108137). Z-LVG-CHN2 is a cell-permeable and irreversible inhibitor of cysteine proteinase. Z-LVG-CHN2 is a tripeptide derivative and mimics part of the human cysteine proteinase-binding center. Z-LVG-CHN2 displays an inhibition on HSV whereas no significant effect on poliovirus replication. Z-LVG-CHN2 effectively blocks SARS-COV-2 replication (EC_{50}=190 nM) via inhibition of SARS-COV-2 3CL pro protease[3].

REFERENCES

[1]. R L Mellgren, et al. Inhibition of growth of human TE2 and C-33A cells by the cell-permeant calpain inhibitor benzyloxycarbonyl-Leu-Leu-Tyr diazomethyl ketone. Exp Cell Res. 1994 Nov;215(1):164-71.

[2]. L Björck, et al. Cystatin C, a human proteinase inhibitor, blocks replication of herpes simplex virus. J Virol

[3]. Laura Riva, et al.A Large-scale Drug Repositioning Survey for SARS-CoV-2 Antivirals. bioRxiv. 2020 Apr 17;2020.04.16.044016.

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