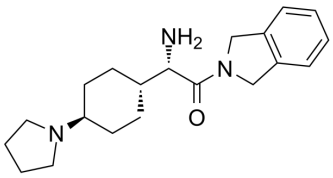
ICeD-2

Cat. No.:	HY-151871
Molecular Formula:	$C_{20}H_{29}N_3O$
Molecular Weight:	327.46
Target:	Dipeptidyl Peptidase; HIV
Pathway:	Metabolic Enzyme/Protease; Anti-infection
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ICeD-2 is a inducer of cell death, can induce HIV-1 infected cell kill. ICeD-2-mediated HIV-1 infected cell kill is dependent on HIV-1 protease activity. ICeD-2 potently blocks hydrolysis of Gly-Pro-AMC by dipeptidyl peptidase DPP8 and DPP9. ICeD-2 shows strong stabilization of DPP9 in PBMCs[1].
IC_{50} & Target	HIV-1
In Vitro	ICeD-2 potently blocks hydrolysis of Gly-Pro-AMC by dipeptidyl peptidase DPP8 and DPP9. ICeD-2 displays exquisite selectivity across this panel of peptidases and had a >3000× fold selectivity window over both DPP4 and DPP7[1]. In WT THP-1 cells, ICeD-2 treatment leads to loss of GFP-positive cells, whereas in the absence of CARD8 (caspase recruitment domain family member 8), CASP-1 (caspase-1), or GSDMD (gasdermin-D), ICeD-2 has little to no effect on the number of GFP-positive cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Moore KP, et al. A Phenotypic Screen Identifies Potent DPP9 Inhibitors Capable of Killing HIV-1 Infected Cells. ACS Chem Biol. 2022 Sep 16;17(9):2595-2604.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA