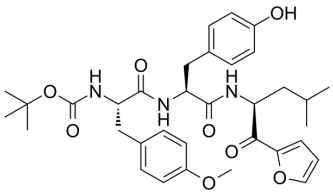
20S Proteasome-IN-3

Cat. No.:	HY-150591
CAS No.:	1803040-07-4
Molecular Formula:	$C_{34}H_{43}N_3O_8$
Molecular Weight:	621.72
Target:	Proteasome
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	20S Proteasome-IN-3 is a 20S proteasome β5 subunit inhibitor (IC_{50}=1.64 μM)[1][2]. 20S Proteasome-IN-3 shows anti-tumor proliferation activity[2].
IC_{50} & Target	IC50: 1.64 μM (20S proteasome β5 subunit)[1]
In Vitro	20S Proteasome-IN-3 (Compound 10b) (5.34-9.69 μM, 18-24 h) exhibits significant inhibition against A375, SW480, DU145, and HeLa cells[2]. MCE has not independently confirmed the accuracy of these methods. They are for reference only. Cell Proliferation Assay[2]

Cell Line:	A375, SW480, DU145, and HeLa cell lines
Concentration:	5.34-9.69 μM
Incubation Time:	18-24 hours
Result:	Inhibited the proliferation of SW480, DU145, A375 and HeLa cells with the IC_{50}s of 5.34, 9.69, 5.66 and 7.03 μM, respectively.

REFERENCES

[1]. Qi Sun, et al. Design and synthesis of tripeptidyl furylketones as selective inhibitors against the β5 subunit of human 20S proteasome. Eur J Med Chem. 2020 Apr 15;192:112160.

[2]. Qi Sun, et al. Synthesis, bioactivity, docking and molecular dynamics studies of furan-based peptides as 20S proteasome inhibitors. ChemMedChem. 2015 Mar;10(3):498-510.

Caution: Product has not been fully validated for medical applications. For research use only.

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