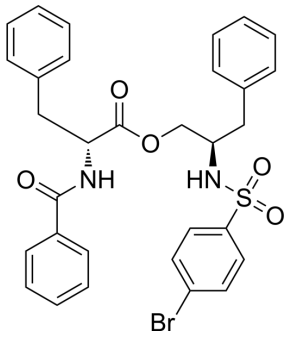
ASPER-29

Cat. No.:	HY-152210
CAS No.:	2630388-03-1
Molecular Formula:	$C_{31}H_{29}BrN_2O_5S$
Molecular Weight:	621.54
Target:	Cathepsin
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	ASPER-29 is Asperphenamate HY-129578 analog. ASPER-29 also is a dual cathepsin L and S inhibitor with IC_{50} value of 6.03 μM and 5.02 μM, respectively. ASPER-29 can be used for the research of the migration and invasion of cancer[1].	
IC_{50} & Target	cathepsin L 6.03 μM (IC_{50})	cathepsin S 5.02 μM (IC_{50})
In Vitro	ASPER-29 has dual Cat L and S inhibitory potency with IC_{50} value of 6.03 μM and 5.02 μM, respectively[1]. ASPER-29 shows a definite antimetastatic effect on pancreatic cancer BxPC-3 and PANC-1 cells[1]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.	

REFERENCES

[1]. Haoqiang Huang, et al. Design and synthesis of dual cathepsin L and S inhibitors and antimetastatic activity evaluation in pancreatic cancer cells. Bioorg Med Chem Lett. 2022 Nov 23;80:129087.

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