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Data Sheet

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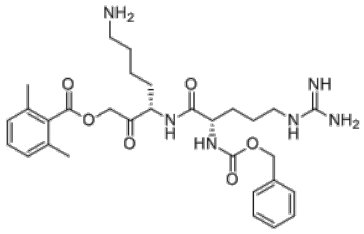
Product Name	:	Z-Arg-Lys-AOMK
Cat. No.	:	PC-38309
CAS No.	:	2810056-57-4
Molecular Formula	:	$C_{30}H_{42}N_6O_6$
Molecular Weight	:	582.702
Target	:	Cathepsin
Solubility	:	10 mM in DMSO



Biological Activity

Z-Arg-Lys-AOMK is a potent, selective, irreversible neutral pH 7.2 inhibitor of **Cathepsin B** with IC50 of 13 nM, >100-fold higher potent than at pH 4.6 (IC50=1,830 nM).
Z-Arg-Lys-AOMK displayed high specificity for cathepsin B compared to other lysosomal cysteine cathepsins.
Z-Arg-Lys-AOMK selectively inhibits cathepsin B cleavage of peptides at neutral cytosolic pH compared to acidic lysosomal pH conditions.
Z-Arg-Lys-AOMK completely inhibited cathepsin B in human neuroblastoma cell lysates at 1 uM.
Z-Arg-Lys-AOMK is cell permeable and inhibits intracellular cathepsin B.

References

Michael C Yoon, et al. ***ACS Chem Biol.*** 2021 Sep 17;16(9):1628-1643.

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