Product Data Sheet

Acetyl-Calpastatin(184-210)(human)

Cat. No.:	HY-P1081				
CAS No.:	123714-50-1				
Molecular Formula:	$C_{_{142}}H_{_{230}}N_{_{36}}O_{_{44}}S$				
Molecular Weight:	3177.63				
Sequence:	Ac-Asp-Pro-Met-Ser-Ser-Thr-Tyr-Ile-Glu-Glu-Leu-Gly-Lys-Arg-Glu-Val-Thr-Ile-Pro-Pro-L ys-Tyr-Arg-Glu-Leu-Leu-Ala-NH2				
Sequence Shortening:	Ac-DPMSSTYIEELGKREVTIPPKYRELLA-NH2				
Target:	Proteasome				
Pathway:	Metabolic Enzyme/Protease				
Storage:	Sealed stora Powder * In solvent and light, un	age, away -80°C -20°C : -80°C, 6 nder nitro	r from moisture and light, under nitrogen 2 years 1 year months; -20°C, 1 month (sealed storage, away from moisture ogen)		

	OGICAL	ΔΟΤΙΛΙΤΛ	
DIUL	OGICAL	ACTIVIT	

Description	Acetyl-Calpastatin(184-210)(human) is a potent, selective and reversible calpain inhibitor with K _i values of 0.2 nM and 6 μM for μ-calpain and cathepsin L, respectively ^{[1][2]} .
In Vitro	Acetyl-Calpastatin(184-210)(human) (peptide 1; 12.5-100 μ M) inhibits calpains in LCLC 103H cells with an IC ₅₀ of 27 μ M ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Ferdinando Fiorino, et al. A new cell-permeable calpain inhibitor. J Pept Sci. 2007 Jan;13(1):70-3.

[2]. Benjamin P Davis, et al. Eosinophilic esophagitis-linked calpain 14 is an IL-13-induced protease that mediates esophageal epithelial barrier impairment. JCI Insight. 2016 Apr;1(4):e86355.

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

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