

Mca-SEVNLDAEFK(Dnp)

Cat. No.:	HY-P4919
CAS No.:	1802078-31-4
Molecular Formula:	C ₆₈ H ₈₈ N ₁₄ O ₂₇
Molecular Weight:	1533.5
Sequence:	{Mca}-Ser-Glu-Val-Asn-Leu-Asp-Ala-Glu-Phe-{Lys(Dnp)}
Sequence Shortening:	{Mca}-SEVNLDAEF-{Lys(Dnp)}
Target:	Beta-secretase
Pathway:	Neuronal Signaling
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description

Mca-SEVNLDAEFK(Dnp) is a Beta-secretase 1 (BACE-1) peptide FRET substrate, containing the 'Swedish' Lys-Met/Asn-Leu mutation of the amyloid precursor protein (APP) β -secretase cleavage site. Cleavage at -Leu-Asp- of Mca-SEVNLDAEFK(Dnp) liberates the highly fluorescent 7-methoxycoumarin (Mca) fragment from the proximity quenching effect of the 2,4-dinitrophenyl (Dnp) internal quencher resulting in a large and easily detectable increase in fluorescence intensity.

REFERENCES

- [1]. Vila-Real H, et al. Peptidomimetic β -Secretase Inhibitors Comprising a Sequence of Amyloid- β Peptide for Alzheimer's Disease. *J Med Chem*. 2015 Jul 23;58(14):5408-18.
- [2]. Yen YC, et al. Development of an Efficient Enzyme Production and Structure-Based Discovery Platform for BACE1 Inhibitors. *Biochemistry*. 2019 Nov 5;58(44):4424-4435.

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

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