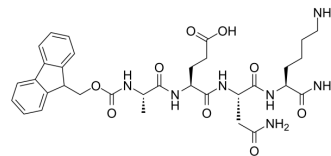


Fmoc-Ala-Glu-Asn-Lys-NH2

Cat. No.: HY-114174
CAS No.: 220701-06-4
Molecular Formula: C₃₃H₄₃N₇O₉
Molecular Weight: 681.74
Sequence Shortening: {Fmoc}-AENK-NH2
Target: Amyloid-β
Pathway: Neuronal Signaling
Storage: Protect from light, stored under nitrogen
 Powder -80°C 2 years
 -20°C 1 year



* In solvent : -80°C, 6 months; -20°C, 1 month (protect from light, stored under nitrogen)

SOLVENT & SOLUBILITY

In Vitro

DMSO : 100 mg/mL (146.68 mM; ultrasonic and warming and heat to 80°C)

Concentration	Solvent	Mass		
		1 mg	5 mg	10 mg
Preparing Stock Solutions	1 mM	1.4668 mL	7.3342 mL	14.6683 mL
	5 mM	0.2934 mL	1.4668 mL	2.9337 mL
	10 mM	0.1467 mL	0.7334 mL	1.4668 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Fmoc-Ala-Glu-Asn-Lys-NH2 is a selective asparagine endopeptidase (AEP) inhibitor peptide and suppresses amyloid precursor protein (APP) cleavage. AEP, a pH-controlled cysteine proteinase, is activated during ageing and mediates APP proteolytic processing^[1].

In Vitro

Fmoc-Ala-Glu-Asn-Lys-NH2 antagonizes APP processing by AEP, whereas other small molecular inhibitors and inactive peptide AEQK were without effect^[1].
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Zhang Z, et al. Delta-secretase cleaves amyloid precursor protein and regulates the pathogenesis in Alzheimer's disease. Nat Commun. 2015;6:8762. Published 2015

Nov 9.

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

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