

ApoA-I mimetic peptide

Cat. No.:	HY-P5282	
CAS No.:	221882-20-8	
Molecular Formula:	C ₁₂₂ H ₂₀₈ N ₃₀ O ₃₃	
Molecular Weight:	2623.14	Pro-Val-Leu-Asp-Leu-Phe-Arg-Glu-Leu-Leu-Asn-Glu-Leu-Leu-Glu-Ala-Leu-Lys-Gln-Lys-Leu-Lys
Sequence:	Pro-Val-Leu-Asp-Leu-Phe-Arg-Glu-Leu-Leu-Asn-Glu-Leu-Leu-Glu-Ala-Leu-Lys-Gln-Lys-Leu-Lys	
Sequence Shortening:	PVLDLFRELLNELLEALKQKLK	
Target:	Liposome	
Pathway:	Metabolic Enzyme/Protease	
Storage:	Sealed storage, away from moisture and light	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)	

SOLVENT & SOLUBILITY

In Vitro

DMSO : 12.5 mg/mL (4.77 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	0.3812 mL	1.9061 mL	3.8122 mL
	5 mM	---	---	---
	10 mM	---	---	---

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

BIOLOGICAL ACTIVITY

Description

ApoA-I mimetic peptide (PVLDLFRELLNELLEALKQKLK) has good lecithin:cholesterol acyl transferase (LCAT) activation potency. ApoA-I mimetic peptide can be used for synthesis of peptide/lipid complex^{[1][2]}.

REFERENCES

- [1]. Helsingin yliopisto. Formation of therapeutic hdl-mimetic nanodiscs and their interaction with lecithin:cholesterol acyltransferase-a qcm study.
- [2]. Emily E Morin, et al. Abstract 335: Atheroma-specific Delivery of Synthetic High-density Lipoprotein Containing Sphingosine-1-phosphate for Modulation of Vascular Inflammation. Arteriosclerosis, Thrombosis, and Vascular Biology.

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

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