Pep2-8

Cat. No.: HY-P2276

CAS No.: 1541011-97-5

Molecular Formula: $C_{83}H_{110}N_{16}O_{24}$

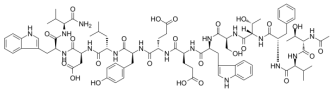
Molecular Weight: 1715.85

Sequence Shortening: Ac-TVFTSWEEYLDWV-NH2

Target: Ser/Thr Protease

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 : 100 mg/mL (58.28 mM; Need ultrasonic)

Preparing Stock Solutions	Solvent / Mass / Concentration	1 mg	5 mg	10 mg
	1 mM	0.5828 mL	2.9140 mL	5.8280 mL
	5 mM	0.1166 mL	0.5828 mL	1.1656 mL
	10 mM	0.0583 mL	0.2914 mL	0.5828 mL

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

In Vivo

1. Add each solvent one by one: 10% DMSO >> 90% corn oil
Solubility: ≥ 2.5 mg/mL (1.46 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pep2-8 is a PCSK9 inhibitor with a binding K_D of 0.7 μM and an IC_{50} of 1.4 μM[1].

In Vitro

Pep2-8 binds to C-terminally truncated PCSK9[1].
Pep2-8 restored LDL uptake of PCSK9-treated HepG2 cells to about 90% of control activity at a concentration of 50 μM[1].
MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Cell Viability Assay[1]

Cell Line:	HepG2 cell.
Concentration:	15 μg/mL.

Incubation Time:	4 h.
Result:	Inhibited PCSK9 activity.

REFERENCES

[1]. Yingnan Zhang, et al. Identification of a small peptide that inhibits PCSK9 protein binding to the low density lipoprotein receptor. J Biol Chem. 2014 Jan 10;289(2):942-55.

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com
Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA