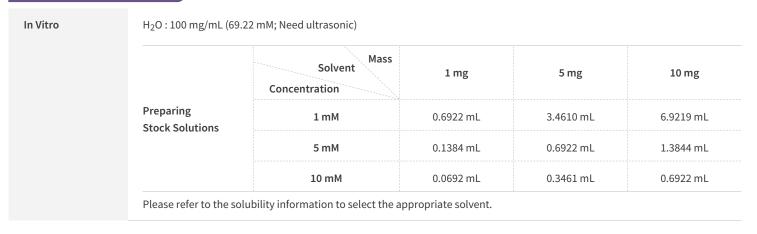
Selcopintide acetate

Cat. No.:	НҮ-Р3386А	
Molecular Formula:	$C_{64}H_{109}N_{21}O_{17}$	
Molecular Weight:	1444.68	NH1, NH1, HN ₂₀₂ -NH2
Sequence:	Lys-Tyr-Lys-Gln-Lys-Arg-Arg-Ser-Tyr-Lys	
Sequence Shortening:	KYKQKRRSYK	
Target:	Others	
Pathway:	Others	
Storage:	Stored under nitrogen, away from moisture	
	Powder -80°C 2 years	
	-20°C 1 year	
	* In solvent : -80°C, 6 months; -20°C, 1 month (stored under nitrogen, away from	
	moisture)	

SOLVENT & SOLUBILITY



BIOLOGICAL ACTIV	
Description	Selcopintide (Cpne7-DP) acetate consists of a synthetic peptide corresponding to the 10 amino acid residue 344-353 fragment of the hCPNE7 protein. Selcopintide acetate highly reproduces the in vitro effects of CPNE7 by upregulating odontoblast marker genes, DSPP, and Nestin. Selcopintide acetate promotes dentin regeneration in dentinal defects of various degrees and that the regenerated hard tissue demonstrates the characteristics of true dentin ^[1] .
In Vitro	Selcopintide (Cpne7-DP) acetate directly penetrates odontoblastic cell (MDPC-23 cells) ^[1] . Selcopintide (1, 10 μg) acetate increases dspp promoter activity in a dose-dependent manner ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.
In Vivo	Selcopintide (Cpne7-DP; human DPCs with 10 µg subcutaneous transplantation in a 0.5% fibrin gel) acetate promotes dentin-like tissue formation and the regeneration of tubular dentin and dentinal tubule occlusion in shallow and deep cavity models ^[1] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Product Data Sheet



Animal Model:	Immunocompromised mice (NIH-bg-nu-xid) ^[1]
Dosage:	10 µg
Administration:	Subcutaneous transplantation in a 0.5% fibrin gel
Result:	Promotes dentin-like tissue formation. Promotes the regeneration of tubular dentin and dentinal tubule occlusion in shallow and deep cavity models.

REFERENCES

[1]. Lee YS, et al. Tubular Dentin Regeneration Using a CPNE7-Derived Functional Peptide. Materials (Basel). 2020;13(20):4618. Published 2020 Oct 16.

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

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