

Selcopintide

Cat. No.:	HY-P3386
CAS No.:	2130912-34-2
Molecular Formula:	C ₆₂ H ₁₀₅ N ₂₁ O ₁₅
Molecular Weight:	1384.63
Sequence:	Lys-Tyr-Lys-Gln-Lys-Arg-Arg-Ser-Tyr-Lys
Sequence Shortening:	KYKQKRRSYK
Target:	Others
Pathway:	Others
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

BIOLOGICAL ACTIVITY

Description	Selcopintide (Cpne7-DP) consists of a synthetic peptide corresponding to the 10 amino acid residue 344-353 fragment of the hCPNE7 protein. Selcopintide highly reproduces the in vitro effects of CPNE7 by upregulating odontoblast marker genes, DSPP, and Nestin. Selcopintide 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) directly penetrates odontoblastic cell (MDPC-23 cells) ^[1] . Selcopintide (1, 10 µg) 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) 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.	
	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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