

Selcopintide acetate

Chemical Properties

CAS No. :

Formula: C64H109N21O17

Molecular Weight: 1444.68

Keep away from moisture

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

Biological Description

Description	Selcopintide acetate (Cpne7-DP), a synthetic peptide, mirrors the 344-353 amino acid sequence of the hCPNE7 protein. It effectively mimics CPNE7's in vitro activity, enhancing the expression of odontoblast markers like DSPP and Nestin. Selcopintide acetate has been shown to facilitate dentin regeneration across varying levels of dentinal defects, with the regenerated tissue exhibiting true dentin properties [1].
Targets(IC50)	Calcium Channel
In vitro	Selcopintide (Cpne7-DP) acetate directly penetrates into odontoblastic (MDPC-23) cells [1]. Additionally, Selcopintide acetate at dosages of 1 and 10 µg enhances the activity of the dspp promoter in a dose-dependent manner [1].
In vivo	Selcopintide (Cpne7-DP; 10 µg in 0.5% fibrin gel mixed with human DPC cells before subcutaneous transplantation) acetate facilitates dentin-like tissue formation and regenerates tubular dentin, including dentinal tubule occlusion, in both shallow and deep cavity models [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.6922 mL	3.461 mL	6.9219 mL
5 mM	0.1384 mL	0.6922 mL	1.3844 mL
10 mM	0.0692 mL	0.3461 mL	0.6922 mL
50 mM	0.0138 mL	0.0692 mL	0.1384 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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