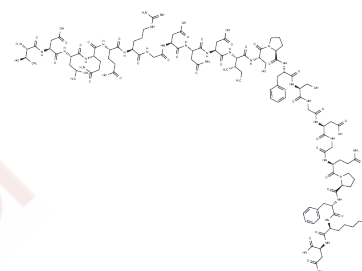


Dentonin

Chemical Properties

CAS No. :	400090-20-2
Formula:	C107H160N30O42
Molecular Weight:	2538.625
Storage:	Keep away from moisture Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Dentonin (AC-100) is a synthetic fragment derived from MEPE that enhances osteogenesis by promoting osteoprogenitor adhesion and facilitating the survival of immature adherent cells, without significantly affecting mature osteoblasts. Dentonin is valuable for research on phosphate homeostasis and bone metabolism.
In vitro	MEPE, a secreted glycoprophosphoprotein belonging to the SIBLING (Small Integrin-Binding Ligand, N-linked Glycoprotein) family, plays a crucial role in regulating bone mass and osteoblast activity. Dentonin, at concentrations of 3-30 µg/ml over 2-24 hours, significantly enhances cell proliferation and promotes cell adhesion, though it does not affect the overall number of cells adhered. Additionally, Dentonin markedly increases osteoblast spreading, demonstrating significantly larger cell areas compared to other treatments.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3939 mL	1.9696 mL	3.9391 mL
5 mM	0.0788 mL	0.3939 mL	0.7878 mL
10 mM	0.0394 mL	0.197 mL	0.3939 mL
50 mM	0.0079 mL	0.0394 mL	0.0788 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.

Reference

Andrew P Sprowson, et al. ASARM-truncated MEPE and AC-100 enhance osteogenesis by promoting osteoprogenitor adhesion. J Orthop Res. 2008 Sep;26(9):1256-62.

N Six, et al. Dentonin, a MEPE fragment, initiates pulp-healing response to injury. J Dent Res. 2007 Aug;86(8):780-5.

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