

Dentonin acetate

Chemical Properties

CAS No. :

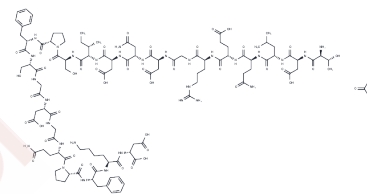
Formula: C109H164N30O44

Molecular Weight: 2598.64

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	Dentonin acetate enhances osteogenesis and facilitates immature adherent cell survival. Dentonin acetate, a synthetic fragment derived from MEPE, can be used in phosphate homeostasis and bone metabolism studies.
Targets(IC50)	Others
In vitro	Dentonin acetate (3-30 µg/ml; 2-24 hours) enhances osteoblast spreading, it exhibits significantly increased cell areas compared to all other treatments. Dentonin acetate (3-30 µg/ml; 2-24 hours) significantly increases the number of cells and shows the enhanced promotion of cell adhesion. However, it has no significant differences in terms of number of cells adhered to [1].

Solubility Information

Solubility	DMSO: 25.99 mg/mL (10 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	0.3848 mL	1.9241 mL	3.8482 mL
5 mM	0.077 mL	0.3848 mL	0.7696 mL
10 mM	0.0385 mL	0.1924 mL	0.3848 mL
50 mM	0.0077 mL	0.0385 mL	0.077 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

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

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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