

Dentonin

Cat. No.:	HY-P2633
CAS No.:	400090-20-2
Molecular Formula:	$C_{107}H_{160}N_{30}O_{42}$
Molecular Weight:	2538.59
Sequence Shortening:	TDLQERGDNDISPFSGDGQPFKD
Target:	Others
Pathway:	Others
Storage:	Sealed storage, away from moisture and light, under nitrogen Powder -80°C 2 years -20°C 1 year

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light, under nitrogen)

BIOLOGICAL ACTIVITY

Description	Dentonin (AC-100) is a synthetic fragment derived from MEPE. Dentonin enhances osteogenesis by promoting osteoprogenitor adhesion and facilitates immature adherent cells survival. Dentonin has no significant effect to mature osteoblasts. Dentonin can be used for the research of phosphate homeostasis and bone metabolism ^[1] .
In Vitro	MEPE is a member of the SIBLING (Small Integrin-Binding Ligand, N-linked Glycoprotein) family of secreted glycophosphoproteins. MEPE regulates bone mass and influence osteoblast activity. ^[1] Dentonin (3-30 µg/ml; 2-24 hours) significantly increases the numbers of cell and shows enhanced promotion of cell adhesion. However, it has no significant differences in terms of numbers of cells adhered ^[2] . Dentonin (3-30 µg/ml; 2-24 hours) enhances osteoblast spreading, it exhibits significantly increased cell areas compared to all other treatment ^[2] . MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

- [1]. 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.
- [2]. N Six, et al. Dentonin, a MEPE fragment, initiates pulp-healing response to injury. J Dent Res. 2007 Aug;86(8):780-5.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA