

Recombinant human AMTN protein

Catalog Number: ATGP1829

PRODUCT INFORMATION

Expression system

E.coli

Domain

17-209aa

UniProt No.

Q6UX39

NCBI Accession No.

NP_997722

Alternative Names

amelotin, uNQ689

PRODUCT SPECIFICATION

Molecular Weight

22.2 kDa (216aa) confirmed by MALDI-TOF

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.2M NaCl, 20% glycerol, 2mM DTT

Purity

> 90% by SDS-PAGE

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

AMTN belongs to the amelotin family. It could be a cell adhesion protein involved in the maturation of tooth enamel. AMTN is a recently discovered secreted enamel protein predominantly expressed during the maturation stage of enamel formation. It accumulates in a basal lamina-like structure at the interface between ameloblasts and enamel mineral and it co-localizes with another recently described enamel protein, odontogenic ameloblast-associated protein (ODAM). Recombinant human AMTN protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

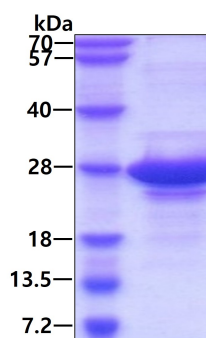
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ANPDVQDGSL PAGGAGVNPA TQGTPAGRLP TPSGTDDDFV VTPAGIQRS THAIEEATTE SANGIQ

General References

Holcroft J, et al. (2011) Eur J Oral Sci. Dec;119 Suppl 1:301-6.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.