

AR50683PU-S

Human Amelogenin (17-191, His-tag) - Purified

Alternate names:

AMELX, AMG, AMGX, Amelogenin X isoform

Quantity:

20 µg

Concentration:

0.25 mg/ml (determined by Bradford assay)

Background:

AMELX is a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in AMELX cause X-linked amelogenesis imperfecta. Alternative splicing results in multiple transcript variants encoding different isoforms.

Uniprot ID:

[Q99217](#)

NCBI:

[NP_001133](#)

GeneID:

[265](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90% by SDS - PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 30% glycerol, 1mM DTT

Description:

Recombinant human AMELX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHH SGLVPRGSH MGSMLPPHP GHPGYINFSY EVLTPLKWYQ SIRPPYPSYG
YEPMGWLHH QIIPVLSQQH PPTHTLQPHH HIPVVPAQQP VIPQQPMPV PGQHSMTPIQ
HHQPNLPPPA QPYQPQPQVQ PQPHQPMQPQ PPVHPMQPLP PQPPLPPMFP MQPLPMLPD
LTLEAWPSTD KTKREEVD

Molecular weight: 22 kDa (198aa), confirmed by MALDI-TOF

Storage:

Store undiluted at 2-8°C for one week or (in aliquots) at -20°C to -80°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Patir A, Seymen F, et al. (2008). Caries Res. 42(5):394-400. Zhu L, Tanimoto K, et al. (2009). Cells Tissues Organs. 189(1-4):203-6.

Pictures:

