

AMELX, 17-191aa, Human, His tag, E.coli

Cat.NO.: TP01145

3th Edition

Synonyms:Amelogenin, X isoform isoform 1, Amelogenin, X-linked, AI1E, AIH1, ALGN, AMG, AMGL, AMGX

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

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl, 30% glycerol, 1mM DTT

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

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSMPLPPHPGHPGYINFSYEVLTPWKYQSIRPPYPSYGYEPMGGWLHHQIIPV
LSQQHPPTHTLQPHHHIPVVPAQQPVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQPYQPQPVQPQPHQPMQP
QPPVHPMQPLPPQPPLPPMFPMQPLPPMLPDLTLEAWPSTDKTKREEVD

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.