Recombinant Human AMELX, His-tagged

Cat. No. AMELX-7077H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human AMELX protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	17-191aa
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.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.5) containing 0.2M NaCl,30% glycerol, 1mM DTT
Molecular Mass	22 kDa (198aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMPLPPHP GHPGYINFSY EVLTPLKWYQ SIRPPYPSYG YEPMGGWLHH QIIPVLSQQH PPTHTLQPHHHIPVVPAQQP VIPQQPMMPV PGQHSMTPIQ HHQPNLPPPA QQPYQPQPVQ PQPHQPMQPQ PPVHPMQPLP PQPPLPPMFP MQPLPPMLPD LTLEAWPSTD KTKREEVD
Purity	>90% by SDS - PAGE

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Applications	SDS-PAGE
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.
Concentration	0.25 mg/ml

GENE INFORMATION

Gene Name	AMELX amelogenin, X-linked [Homo sapiens]
Official Symbol	AMELX
Synonyms	AMELX; amelogenin, X-linked; AIH1, amelogenin (X chromosome, amelogenesis imperfecta 1) , AMG; amelogenin, X isoform; amelogenesis imperfecta 1; amelogenin (amelogenesis imperfecta 1, X-linked); amelogenin (X chromosome, amelogenesis imperfecta 1); AMG; AI1E; AIH1; ALGN; AMGL; AMGX;
Gene ID	265
mRNA Refseq	NM_001142
Protein Refseq	NP_001133
MIM	300391
UniProt ID	Q99217
Chromosome Location	Xp22.31-p22.1
Function	cell surface binding; growth factor activity; hydroxyapatite binding; identical protein

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	binding; protein binding; structural constituent of tooth enamel; structural constituent of tooth enamel;

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