

## Recombinant Human AMELX, His-tagged

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

### SPECIFICATION

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

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<b>Applications</b>	SDS-PAGE
<b>Storage</b>	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.
<b>Concentration</b>	0.25 mg/ml
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	AMELX amelogenin, X-linked [ Homo sapiens ]
<b>Official Symbol</b>	AMELX
<b>Synonyms</b>	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;
<b>Gene ID</b>	265
<b>mRNA Refseq</b>	NM_001142
<b>Protein Refseq</b>	NP_001133
<b>MIM</b>	300391
<b>UniProt ID</b>	Q99217
<b>Chromosome Location</b>	Xp22.31-p22.1
<b>Function</b>	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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