

# Recombinant Human AMELX Protein, (AFPn)-His-TEV-tagged

Cat. No. AMELX-015H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Full-length mature human AMELX cDNA (17–191aa, isoforms-1, derived from BC064379) was constructed with codon optimization and expressed with a human Alpha-Fetal Protein N-terminal domain (AFPn)-His-TEV cleavage site (219aa) fusion at its N-terminal.

**Species** Human

**Source** E.coli

**ProteinLength** 17–191

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

**AA Sequence** MTLHRNEYGIASILDSYQCTAEISLADLATIFFAQFVQEATYKEVSKMVKDALTAIEKP  
TGDEQSSGCLLENQLPAFLEELCHEKEILEKYGHSDCCSQSEEGRHNCFLAHKKPTP  
ASIFLQVPEPVTSCAYEEDRETFMKNFIYEIARRHPFLYAPTILLWAARYDKIIPSCC  
KAENAVECFQTKAATVTKELRESSGGSHHHHHHGSENLYFQGEFEMPLPPHPGHP  
GYINFSYEVLTPLKWYQSIRPPYPSYGYEPMGGWLHHQIIPVLSQQHPPTHTLQPHH  
HIPVVPAQQPVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQPYQPQPVPQPPHQ  
PMQPQPPVHPMQPLPPQPPLPPMFPMQPLPMLPDLTLEAWPSTDKTKREEVD

**Purity** > 90% by SDS-PAGE.

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|                       |   |
|-----------------------|---|
| <b>Applications</b>   | <ol style="list-style-type: none"> <li>1. May be used for in vitro AMELX mediated hBMSCx osteogenic differentiation regulation study with this protein as either coating matrix protein or soluble factor.</li> <li>2. May be used for AMELX protein-protein interaction assay.</li> <li>3. As antigen for specific antibody production.</li> </ol> |
| <b>Storage</b>        | In Liquid. Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.  |
| <b>Concentration</b>  | 0.5 mg/mL   |
| <b>Storage Buffer</b> | Sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, Sucrose and DTT.  |

## GENE INFORMATION

|                        |  |
|------------------------|--|
| <b>Gene Name</b>       | AMELX amelogenin X-linked [ Homo sapiens (human) ]   |
| <b>Official Symbol</b> | AMELX  |
| <b>Synonyms</b>        | AMELX; amelogenin X-linked; AMG; AI1E; AIH1; ALGN; AMGL; AMGX; amelogenin, X isoform; amelogenin (X chromosome, amelogenesis imperfecta 1); amelogenin (amelogenesis imperfecta 1, X-linked) |
| <b>Gene ID</b>         | 265  |
| <b>mRNA Refseq</b>     | NM_001142  |
| <b>Protein Refseq</b>  | NP_001133  |
| <b>MIM</b>             | 300391   |

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UniProt ID

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