

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 ASIPLFQVPEPVTSCAYEEDRETFMNKFIYEIARRHPFLYAPTILLWAARYDKIIPSCC KAENAVECFQTKAATVTKELRESSGGSHHHHHHGSENLYFQGEFEMPLPPHPGHP GYINFSYEVLTPLKWYQSIRPPYPSYGYEPMGGWLHHQIIPVLSQQHPPTHTLQPHH HIPVVPAQQPVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQPYQPQPVPQPHQ PMQPQPPVHPMQPLPPQPPLPPMFPMQPLPMLPDLTLEAWPSTDKTKREEVD
Purity	> 90% by SDS-PAGE.

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Applications	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. 2. May be used for AMELX protein-protein interaction assay. 3. As antigen for specific antibody production.
Storage	In Liquid. Keep at -80 centigrade for long term storage. Product is stable at 4 centigrade for at least 30 days.
Concentration	0.5 mg/mL
Storage Buffer	Sterile-filtered, in 20 mM pH 8.0 Tris-HCl Buffer, with proprietary formulation of NaCl, KCl, Sucrose and DTT.
GENE INFORMATION	
Gene Name	AMELX amelogenin X-linked [Homo sapiens (human)]
Official Symbol	AMELX
Synonyms	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)
Gene ID	265
mRNA Refseq	NM_001142
Protein Refseq	NP_001133
MIM	300391

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UniProt ID

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