

Amelogenin Recombinant Protein | AMELX recombinant protein

Recombinant Human Amelogenin, X-Linked

CATALOG #
AAA39071

HOST
E Coli

PRODUCT SYNONYMS

Amelogenin; Recombinant Human Amelogenin; X-Linked; AMELX Human; X-Linked Human Recombinant; Amelogenin X isoform; AMELX; AMG; AMGX; AI1E; AIH1; ALGN; AMGL; AMELX recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90.0% as determined by SDS-PAGE.
Form/Format	AMELX protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 30% glycerol and 1mM DTT. Sterile Filtered colorless solution.
Sequence	MGSSHHHHHH SSGLVPRGSH MGSPLPPHPG HPGYINFSYE VLTPLKQYQS IRPPYPSYGY EPMGGWLHHQ IIPVLSQQHP PTHTLQPHHH IPVVPAQQPV IPQQPMMPVP GQHSMTPIQH HQPNLPPPAQ QPYQPQPVQP QPHQPMQPPV PVHPMQLPP QPPLPPMFPM QPLPPMLPDL TLEAWPSTDK TKREEVD.
Sequence Length	191
Preparation and Storage	Store at 4 degree C if entire vial will be used within 2-4 weeks. Store, frozen at -20 degree C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for AMELX recombinant protein	Description: AMELX Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 198 amino acids (17-191 a.a) and having a molecular mass of 22kDa. AMELX is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. Introduction: Amelogenin, X-Linked (AMELX) belongs to the amelogenin family of extracellular matrix proteins. Amelogenins have a role in biomineralization during tooth enamel development. AMELX gene mutations cause X-linked amelogenesis imperfecta. AMELX regulates the formation of crystallites during the secretory stage of tooth enamel development. AMELX is transiently but amply expressed by ameloblasts during tooth development. Amelogenin is the principal protein in developing dental enamel.
Product Categories/Family for AMELX recombinant protein	Recombinant & Natural Proteins ; Recombinant Proteins

NCBI AND UNIPROT INFORMATION

NCBI GI #	4502071
NCBI GeneID	265
NCBI Accession #	NP_001133.1
NCBI GenBank Nucleotide #	NM_001142.2
UniProt Accession #	Q99217 ; Q96NW6 ; Q9UCA7
NCBI Official Full Name	amelogenin, X isoform isoform 1

NCBI Official Synonym Full Names	amelogenin, X-linked
NCBI Official Symbol	AMELX
NCBI Official Synonym Symbols	AMG; AI1E; AIH1; ALGN; AMGL; AMGX
NCBI Protein Information	amelogenin, X isoform; amelogenesis imperfecta 1; amelogenin (X chromosome, amelogenesis imperfecta 1); amelogenin (amelogenesis imperfecta 1, X-linked)
UniProt Protein Name	Amelogenin, X isoform
UniProt Gene Name	AMELX
UniProt Synonym Gene Names	AMG; AMGX
UniProt Entry Name	AMELX_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/amelx-recombinant-protein-e-coli/39071>