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AMELX Human

Catalog #:PRPS-1331

For research use only.

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.

Synonyms: Amelogenin X isoform, AMELX, AMG, AMGX, AI1E, AIH1, ALGN, AMGL.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MGSMPLPPHP GHPGYINFSY EVLTPLKWYQ SIRPPYPSYG YEPMGGWLHH QIIPVLSQQH PPTHTLQPHH HIPVVPAQQP VIPQQPMMPV PGQHSMTPIQ HHQPNLPPPA QQPYQPQPVQ PQPHQPMQPQ PPVHPMQPLP PQPPLPPMFP MQPLPPMLPD LTLEAWPSTD KTKREEVD.

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
AMELX protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 30% glycerol and 1mM DTT.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°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.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drμgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Amelogenin, X-Linked (AMELX) belongs to the amelogenin family of extracellular matrix proteins. Amelogenins have a role 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.

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