
Product Data Sheet

Product Name: AMELX Human
 Cat. No.: GP22707
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Amelogenin X isoform; AMELX; AMG; AMGX; AI1E; AIH1; ALGN; AMGL.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMLPPHP GHPGYINFSY EVLTPLKWYQ SIRPPYPSYG YEPMGGLLHH QIIPVLSQQH PPTHTLQPHH HIPVVPAQQP VIPQQPMMPV PGQHSMTPIQ HHQPNLPPA QQPYQPQPVQ PQPHQPMQPQ PPVHPMQPLP PQPPLPPMFP MQPLPPMLPD LTLEAWPSTD KTKREEVD.		
Formulation	AMELX protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.5), 0.2M NaCl, 30% glycerol and 1mM DTT.		

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 abundantly expressed by ameloblasts during tooth development. Amelogenin is the principal protein in developing dental enamel.

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.

Background

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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