9051 Mira Mesa Blvd, #910094
San Diego, CA 92191
Tel: 760-390-3989

AMELX Human

Amelogenin, X-Linked Human Recombinant
RCP0042

Product Overview

Name	AMELX Human

Description

Amelogenin, X-Linked Human Recombinant

Accession (Primary)	Q99217

Synonyms

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

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.

Source

Escherichia Coli.

Physical Appearance

Sterile Filtered colorless solution.

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.

Purity

Greater than 90.0% as determined by SDS-PAGE.

Amino acid sequence

MGSSHHHHHH SSGLVPRGSH MGS MPLPPHP GHPGYINFSY EVLTPLKWYQ SIRPPYPSYG YEPMGGWLHH QIIPVLSQQH PPTHTLQPHH HIPVVPAQQP VIPQQPMMPV PGQHSMTPIQ HHQPNLPPPA QQPYQPQPVQ PQPHQPMQPQ PPVHPMQPLP PQPPLPPMFP MQPLPPMLPD LTLEAWPSTD KTKREEVD.

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Precautions

AMELX Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q99217)