

Product datasheet

Recombinant Human AMELX protein ab114630

1 Image

Overview

Product name	Recombinant Human AMELX protein
Protein length	Protein fragment

Description

Nature	Recombinant
Source	Wheat germ

Amino Acid Sequence

Accession	Q99217
Species	Human
Sequence	PVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQPYQPQPVPQPHQPMQP QPPVHPMQLPPQPPLPPMFPMQLPPMLPDLTLEAWPSTDKTKREEVD
Molecular weight	37 kDa including tags
Amino acids	93 to 191

Specifications

Our [Abpromise guarantee](#) covers the use of **ab114630** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	ELISA SDS-PAGE Western blot
Form	Liquid
Additional notes	Protein concentration is above or equal to 0.05 mg/ml. This protein is best used within three months from the date of receipt.

Preparation and Storage

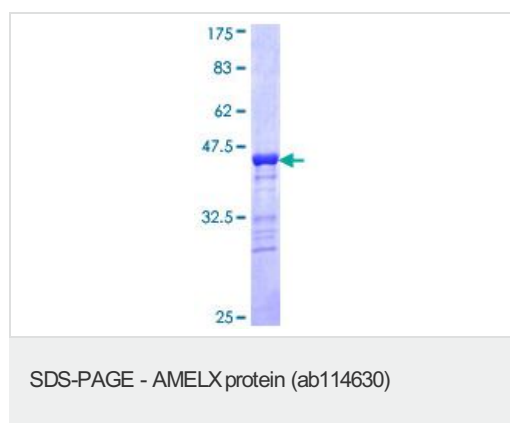
Stability and Storage	Shipped on dry ice. Upon delivery aliquot and store at -80°C. Avoid freeze / thaw cycles. pH: 8.00
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Constituents: 0.3% Glutathione, 0.79% Tris HCl

General Info

Function	Plays a role in biomineralization. Seems to regulate the formation of crystallites during the secretory stage of tooth enamel development. Thought to play a major role in the structural organization and mineralization of developing enamel.
Involvement in disease	Defects in AMELX are the cause of amelogenesis imperfecta hypoplastic type 1 (AIH1) [MIM:301200]. AIH1 is a X-linked defect of dental enamel formation. Teeth have only a thin layer of enamel with normal hardness. The thinness of the enamel makes the teeth appear small.
Sequence similarities	Belongs to the amelogenin family.
Developmental stage	Transiently but abundantly expressed by ameloblasts during tooth development. Amelogenin is the predominant protein in developing dental enamel.
Cellular localization	Secreted > extracellular space > extracellular matrix.

Images



ab114630 analysed by 12.5% SDS-PAGE and stained with Coomassie Blue.

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