

AMELX Protein, Human (His-SUMO)

Cat. No.:	HY-P71627
Synonyms:	AI1E; AIH1; ALGN; Amel; Amelogenesis imperfecta 1; Amelogenin (amelogenesis imperfecta 1; X isoform
Species:	Human
Source:	E. coli
Accession:	Q99217 (17M-191D)
Gene ID:	265
Molecular Weight:	Approximately 35.9 kDa

PROPERTIES

AA Sequence	M P L P P H P G H P G Y I N F S Y E V L T P L K W Y Q S I R P P Y P S Y G Y E P M G G W L H H Q I I P V L S Q Q H P P T H T L Q P H H I P V V P A Q Q P V I P Q Q P M M P V P G Q H S M T P I Q H H Q P N L P P P A Q Q P Y Q P Q P V Q P Q P H Q P M Q P Q P P V H P M Q P L P P Q P P L P P M F P M Q P L P P M L P D L T L E A W P S T D K T K R E E V D
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	AMELX takes center stage in the intricate process of biomineralization, exerting its influence on the formation of crystallites during the secretory stage of tooth enamel development. Its pivotal role extends to the structural organization and mineralization of developing enamel, emphasizing its significance in shaping the intricate architecture of dental tissues. Furthermore, AMELX engages in interactions with KRT5, suggesting its involvement in intricate molecular networks that contribute to the orchestrated development and mineralization of tooth enamel.
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Caution: Product has not been fully validated for medical applications. For research use only.

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