

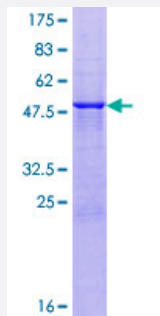
Full-Length

AMELX (Human) Recombinant Protein (P01)

Catalog # H00000265-P01

Size 25 ug, 10 ug

Applications



Specification

Product Description	Human AMELX full-length ORF (NP_001133.1, 1 a.a. - 191 a.a.) recombinant protein with GST-tag at N-terminal.
Sequence	MGTWILFACLLGAAFAMPLPPHPGHPGYNFSYEVLTPLKWYQSIRPPYPSYGYEPMGGWLHHQIIP VLSQQHPPTHTLQPHHHIPVVPAQQPVIPQQPMMPVPGQHSMTPIQHHQPNLPPPAQQPYQPQP VQPQPHQPMQPQPPVHPMQPLPPQPPLPPMFPMQPLPMLPDLTLEAWPSTDKTKREEVD
Host	Wheat Germ (in vitro)
Theoretical MW (kDa)	48
Interspecies Antigen Sequence	Rat (79)
Preparation Method	in vitro wheat germ expression system
Purification	Glutathione Sepharose 4 Fast Flow
Quality Control Testing	12.5% SDS-PAGE Stained with Coomassie Blue.
Storage Buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Storage Instruction	Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — AMELX

Entrez GeneID [265](#)**GeneBank Accession#** [NM_001142.2](#)**Protein Accession#** [NP_001133.1](#)**Gene Name** AMELX**Gene Alias** AIH1, ALGN, AMG, AMGL, AMGX**Gene Description** amelogenin (amelogenesis imperfecta 1, X-linked)**Omim ID** [300391](#) [301200](#)**Gene Ontology** [Hyperlink](#)

Gene Summary This gene encodes a member of the amelogenin family of extracellular matrix proteins. Amelogenins are involved in biomineralization during tooth enamel development. Mutations in this gene cause X-linked amelogenesis imperfecta. Alternative splicing results in multiple transcript variants encoding different isoforms. [provided by RefSeq]

Other Designations OTTHUMP00000022906|OTTHUMP00000022907|amelogenin (X chromosome)|amelogenin (X chromosome, amelogenesis imperfecta 1)

Publication Reference

- [Full-length amelogenin influences the differentiation of human dental pulp stem cells.](#)

Fraseri I, Ern C, Diegritz C, Hickel R, Hristov M, Folwaczny M.

Stem Cell Research & Therapy 2016 Jan; 7:10.

Application: Func, Human, Human Dental Pulp Stem Cells (hDPSCs)

Disease

- [Cardiovascular Diseases](#)
- [Dental Caries](#)
- [Diabetes Mellitus](#)
- [Edema](#)