

AMY2A / Alpha-amylase Recombinant Protein | AMY2A recombinant protein

Recombinant Human AMY2A / Alpha-amylase Protein (His tag)

CATALOG #
AAA173531

HOST
HEK293 Cells

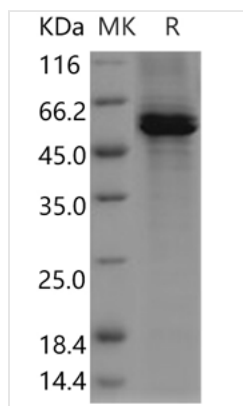
PRODUCT SYNONYMS

AMY2A / Alpha-amylase; Recombinant Human AMY2A / Alpha-amylase Protein (His tag); AMY2; AMY2A; PA; AMY2A recombinant protein

PRODUCT SPECIFICATIONS

Host	HEK293 Cells
Purity/Purification	> 85% as determined by reducing SDS-PAGE
Form/Format	Lyophilized from sterile 50mM Tris, 100mM NaCl, 10% Glycerol, 1mM CaCl ₂ , pH8.5, 8% Trehalose, 5% Mannitol, 0.01% Tween-80
Sequence	Met1-Leu51 1
Sequence Length	511
Species	Human
Endotoxin	< 1.0 EU per ug of the protein as determined by the LAL method
Tag	C-His
Reconstitution	We recommend centrifuging the vial before opening to bring the contents to the bottom. Do not vortex. It is recommended that sterile water be added to the vial to prepare a stock solution of 0.25 mg/mL. Concentration is measured by UV-Vis.
Preparation and Storage	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4 to 8 degree C for 2 to 7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for AMY2A recombinant protein	Background: Alpha-amylase is the major form of amylase found in humans and other mammals. Amylases are secreted proteins that hydrolyze 1, 4-alpha-glucoside bonds in oligosaccharides and polysaccharides, and thus catalyze the first step in digestion of dietary starch and glycogen. Alpha-amylase hydrolyses alpha bonds of large, alpha-linked polysaccharides, such as starch and glycogen, yielding glucose and maltose. Amylases is widely expressed and is most prominent in pancreatic juice and saliva, each of which has its own isoform of human alpha-amylase. They behave differently on isoelectric focusing, and can also be separated in testing by using specific monoclonal antibodies.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	4502085
NCBI GeneID	279
NCBI Accession #	NP_000690.1
NCBI GenBank Nucleotide #	NM_000699.3
UniProt Accession #	P04746; Q9UBH3; B9EJG1
Molecular Weight	Molecular Mass: 57.3 kDa Actual Protein Molecular Mass: 53-58 kDa
NCBI Official Full Name	pancreatic alpha-amylase
NCBI Official Synonym Full Names	amylase, alpha 2A (pancreatic)
NCBI Official Symbol	AMY2A
NCBI Official Synonym Symbols	PA; AMY2
NCBI Protein Information	pancreatic alpha-amylase
UniProt Protein Name	Pancreatic alpha-amylase
UniProt Gene Name	AMY2A
UniProt Synonym Gene Names	PA

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.