

Alpha-Amylase Active Protein | AMY1A active protein

a-Amylase, Human Saliva

CATALOG #
AAA44778

PRODUCT SYNONYMS

Alpha-Amylase; a-Amylase; Human Saliva; Alpha Amylase; Amylase; AMY1A active protein

PRODUCT SPECIFICATIONS

Purity/Purification	>= 90% (SDS-PAGE), doublet at approximately 60 kDa
Form/Format	White to off-white powder; Lyophilized from Tris Chloride, Mannitol, pH 7.2
Sequence Length	511
Source	Human Saliva
Unit Definition	One unit will catalyze the hydrolysis of one micromole 2-chloro-4-nitrophenyl- α -D-maltotrioside to yield 2-chloro-4-nitrophenol per minute at 37°C.
Specific Activity	630 U/mg protein
pH	7.0 (10mg/mL in water)
CAS Number	9000-90-2
E.C Number	3.2.1.1
Solubility	Clear, colorless (10 mg/mL saline).
Protein	0.28 mg protein/mg (Coomassie)
Activity	180 U/mg
Lipase	<0.1%
Protease	<0.1%
Ammonia	<0.1% umole/mg
Advice	Reconstitute into provided container and centrifuge to ensure full recovery.
Handling	Handle as a potentially hazardous substance.
Preparation and Storage	Store at -20°C. Protect from moisture. Aliquot and freeze at -20°C after reconstitution.

ADDITIONAL INFORMATION

Related Product Information for AMY1A active protein	AAA Biotech produces and manufactures high purity human salivary Amylase for research and manufacturing uses. Custom preparations, technical support, bulk quantities and aliquoting available. Amylase is an enzyme that breaks starch down into sugar. Amylase is present in human saliva, where it begins the chemical process of digestion. Foods that contain much starch but little sugar, such as rice and potato, taste slightly sweet as they are chewed because amylase turns some of their starch into sugar in the mouth. Alpha-Amylase is an enzyme that hydrolyses alpha-bonds of large alpha-linked polysaccharides such as starch and glycogen, yielding glucose and maltose. It is being used by researchers as a barometer of the body's response to physical or psychological stress. NIH study shows that Women with high levels of alpha amylase, indicating stress, are less likely to conceive.
Product Categories/Family for AMY1A active protein	Proteins ; Antigens ; Enzymes ; Standards/controls ; Native Proteins ; Immunogen ; Alpha-amylase

NCBI AND UNIPROT INFORMATION

NCBI GI #	83026376
NCBI GeneID	276
UniProt Accession #	P04745 ; Q13763 ; Q5T083 ; A6NJS5 ; A8K8H6
NCBI Official Full Name	salivary alpha-amylase
NCBI Official Synonym Full Names	amylase, alpha 1A (salivary)
NCBI Official Symbol	AMY1A
NCBI Official Synonym Symbols	AMY1
NCBI Protein Information	alpha-amylase 1; glycogenase; salivary alpha-amylase; salivary amylase alpha 1A; amylase, salivary, alpha-1A; 1,4-alpha-D-glucan glucanohydrolase 1
UniProt Protein Name	Alpha-amylase 1
UniProt Gene Name	AMY1A
UniProt Synonym Gene Names	AMY1
UniProt Entry Name	AMY1_HUMAN

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.

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Online datasheet: <https://www.aaabiotech.com/amy1a-active-protein/alpha-amylase/44778>