



# Recombinant Human Pancreatic alpha-amylase (AMY2A)

<b>Product Code</b>	CSB-YP001689HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P04746
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	<p>QYSPN TQQGRTSIVH LFEWRWVDIA LECERYLAPK GFGGVQVSP  NENVAIYNPF RPWWERYQPV SYKLCTRSGN EDEFNMVTR CNNVGVRIYV  DAVINHMCN AVSAGTSSTC GSYFNPGSRD FPAVPYSGWD  FNDGKCKTGS GDIENYNDAT QVRDCRLTGL LDLALEKDYV RSKIAEYMNH  LIDIGVAGFR LDASKHMWPG DIKAILDKLH NLNSNWFPAG SKPFIYQEV  DLGGEPIKSS DYFGNGRVTE FKYGAKLGTV IRKWNGEKMS  YLKNWGEWG FVPSDRALVF VDNHDNQRGH GAGGASILTF  WDARLYKMAV GFMLAHPYGF TRVMSSYRWP RQFQNGNDVN  DWVGGPPNNG VIKEVTINPD TTCGNDWVCE HRWRQIRNMV IFRNVVDGQP  FTNWDNGSN QVAFGRGNRG FIVFNDDWS FSLTLQTGLP AGTYCDVISG  DKINGNCTGI KIYVSDDGKA HFSISNSAED PFIAIHAESK L</p>
<b>Source</b>	Yeast
<b>Target Names</b>	AMY2A
<b>Protein Names</b>	Recommended name: Pancreatic alpha-amylase Short name= PA EC= 3.2.1.1 Alternative name(s): 1,4-alpha-D-glucan glucanohydrolase
<b>Expression Region</b>	16-511
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	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. The human genome has a cluster of several amylase genes that are expressed at high levels in either salivary gland or pancreas. This gene encodes an amylase isoenzyme produced by the pancreas.
<b>Reconstitution</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.



## **Shelf Life**

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself.

Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.