

# Human AMY2B Protein (His Tag)

Catalog Number: 13575-H08H



Sino Biological  
Biological Solution Specialist

## General Information

### Gene Name Synonym:

AMY2; AMY3; HXA

### Protein Construction:

A DNA sequence encoding the human AMY2B (NP\_066188.1) (Met1-Leu511) was expressed with a polyhistidine tag at the C-terminus.

**Source:** Human

**Expression Host:** HEK293 Cells

## QC Testing

**Purity:** > 95 % as determined by SDS-PAGE.

### Endotoxin:

< 1.0 EU per µg protein as determined by the LAL method.

### Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

**Predicted N terminal:** Gln 16

### Molecular Mass:

The recombinant human AMY2B consists 507 amino acids and predicts a molecular mass of 57.3 kDa.

### Formulation:

Lyophilized from sterile PBS, pH 7.4.

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

## Usage Guide

### Storage:

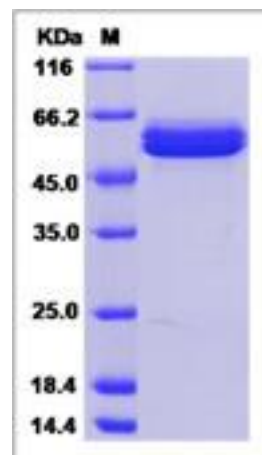
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

**Avoid repeated freeze-thaw cycles.**

### Reconstitution:

Detailed reconstitution instructions are sent along with the products.

## SDS-PAGE:



## Protein Description

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 is the major form of amylase found in humans and other mammals. 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.

## References

1.Abe A. et al., 2005, FEBS J. 272 (23): 6145-53. 2.Aghajari N. et al., 1998, Protein Sci. 7 (3): 564-72. 3.Ramasubbu N. et al., 1996, Acta Crystallographica Section D Biological Crystallography. 52 (3): 435-46.

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