



Recombinant Protein Technical Manual  
Recombinant Human beta Amylase/AMY2 Protein  
(Fc Tag)  
RPES0896

### Product Data:

**Product SKU:** RPES0896

**Size:** 20µg

**Species:** Human

**Expression host:** HEK293 Cells

**Uniprot:** NP\_066188.1

### Protein Information:

**Molecular Mass:** 82.4 kDa

**AP Molecular Mass:**

**Tag:** C-Fc

**Bio-activity:**

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

**Endotoxin:** < 1.0 EU per µg as determined by the LAL method.

**Storage:** Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

**Shipping:** This product is provided as lyophilized powder which is shipped with ice packs.

**Formulation:** Lyophilized from sterile PBS, pH 7.4.

**Reconstitution:** Please refer to the printed manual for detailed information.

**Application:**

**Synonyms:** Alpha-amylase 2B; 1;4-alpha-D-glucan glucanohydrolase 2B; Carcinoid alpha-amylase; HXA; AMY2; AMY3

## Immunogen Information:

**Sequence:** Met 1-Leu511

## Background:

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.