For Research Use Only

Recombinant Human Pancreatic alpha-amylase protein (rFc Tag)

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Catalog Number: Eg3071

Basic Information

Species: Human

Purity: >90 %, SDS-PAGE

Tag: rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Pancreatic alpha-amylase protein Gln16-Leu511 (Accession# P04746-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
279

Accession:
P04746-1

Predicted Molecular Mass:
81.9 kDa

SDS-PAGE:
75-90 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

Not tested

Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

AMY2A, or amylase alpha 2A, is a gene in humans that encodes for a specific isoenzyme of the alpha-amylase family of proteins. AMY2A is expressed at high levels in the pancreas and is selectively found in the cytoplasm of pancreatic exocrine glandular cells. This protein is a secreted enzyme that plays a crucial role in the digestive process, particularly in the breakdown of dietary starch and glycogen.

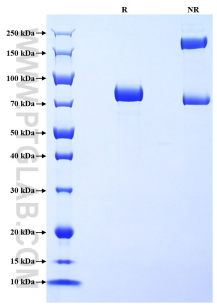
References

1. Nakajima K. (2016). World J Diabetes. 25;7(6):112-21.
2. Hariharan R. et al. (2021). Obes Rev. 22(6):e13205.

Synonyms

AMY2A, Amylase Alpha, Amylase, alpha, 1,4-alpha-D-glucan glucanohydrolase, AMY2

Selected Validation Data



Purity of Recombinant Human Pancreatic alpha-amylase was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.