

Recombinant Human BACE-1/ASP2 Protein

Catalog No.: RP00165 Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 23621 P56817

Tags

C-His

Synonyms ASP2; BACE;

HSPC104;BACE1;BACE;HSPC104

Product Information

Source Purification HEK293 cells ≥ 95 % as

determined by SDS-

PAGE.

Calculated MW Observed MW

49.62 kDa 60-70 kDa

Endotoxin

< 0.1 EU/ μ g of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4.Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Beta-site APP-cleaving enzyme 1 (BACE1) is an aspartic-acid protease important in the formation of myelin sheaths in peripheral nerve cells.BACE-1 is the peptidase predominantly responsible for cleavage of the amyloid precursor protein beta site in the brain to generate the amyloid beta peptide. Because the amyloid beta peptide is a major component of amyloid plaques, BACE-1 has been implicated in the onset and/or progression of Alzheimer's disease. BACE-1 is expressed in a variety of human tissues, such brain, pancreatic tissue.

Basic Information

Description

Recombinant Human BACE-1/ASP2 Protein is produced by HEK293 expression system. The target protein is expressed with sequence (Thr22-Tyr460) of human BACE1/ASP2 (Accession #NP_036236.1) fused with an 8×His tag at the C-terminus.

Bio-Activity

Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2. The specific activity is >5.5 pmol/min/µg.

Shipping

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

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

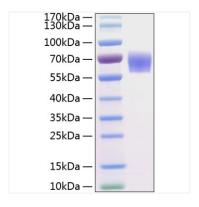
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

Validation Data



Recombinant Human BACE-1/ASP2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.