Recombinant Human BACE-1/ASP2 Protein

Catalog No.: RP00165

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Sequence Information

Species
Human

Gene ID
23621

Swiss Prot
P56817

Tags
C-His

Synonyms
ASP2, BACE, HSPC104,BACE1, BACE,HSPC104

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
49.62 kDa

Observed MW
60-70 kDa

Endotoxin
< 0.1 EU/μg 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.

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.

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
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃

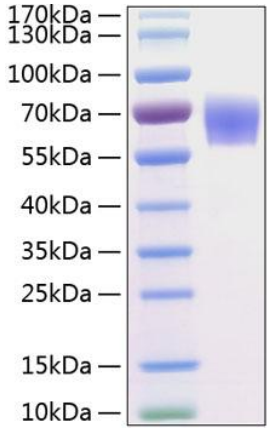
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Validation Data



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