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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% by SDS-PAGE.

Calculated MW	Observed MW
49.62 kDa	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.

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.

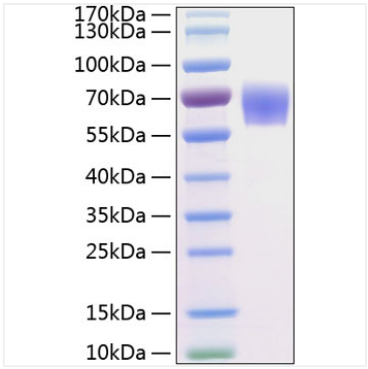
Basic Information

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.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human BACE1/ASP2 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 60-70 kDa.

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