Human BACE1 (His Tag) recombinant protein

Catalog Number: 504068

General Information

Protein Construction

A DNA sequence encoding the extracellular domain (amino acid residue Met 1-Thr 457) of human BACE1 (NP_036236.1) precursor was expressed with a C-terminal polyhistidine tag.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH2, R&D Systems, Catalog # ES004.
The specific activity is >1.5 pmoles/min/μg.

Purity

> 95 % as determined by SDS-PAGE and SEC-HPLC Analysis.

Endotoxin

< 1.0 EU per μg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from date of receipt at -70℃

Predicted N terminal

Thr 22 and Glu 46 (rare)

Molecular Mass

The recombinant human BACE1 consists of 446 amino acids and has a calculated molecular mass of 49.9 kDa. As a result of glycosylation, the recombinant protein migrates as an approximately 60-65 kDa protein in SDS-PAGE under reducing conditions.

Formulation

Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

Usage Guide

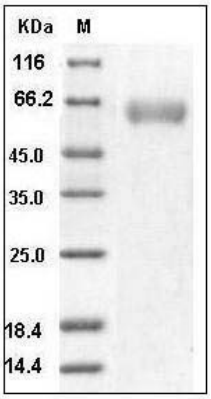
Storage

Store it under sterile conditions at -20℃ to -80℃. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE



Human BACE1 / ASP2 Protein (His Tag) SDS-PAGE