



Synonym

BACE1,ASP2,BACE,FLJ90568,HSPC104,KIAA1149,Memapsin-2,Beta-Secretase, β -secretase

Source

Human BACE-1, Fc Tag(BA1-H5261) is expressed from human 293 cells (HEK293). It contains AA Thr 22 - Thr 457 (Accession # [NP_036236.1](#)). Predicted N-terminus: Thr 22 & Glu 46

Molecular Characterization

BACE-1(Thr 22 - Thr 457)	Fc(Pro 100 - Lys 330)
NP_036236.1	P01857

This protein carries a human IgG1 Fc tag at the C-terminus. The Human BACE-1 will be further processed into mature form (Glu 46-Thr 457). The protein has a calculated MW of 75.2 kDa (pro-form) and 72.6 kDa (mature-form). The protein migrates as 30-32 kDa, 55-65 kDa and 90-100 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 1.0 EU per μ g by the LAL method / rFC method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 μ m filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

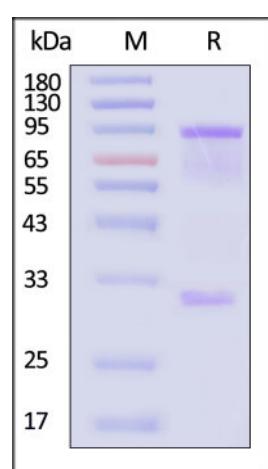
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human BACE-1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Background

Beta-secretase 1 (BACE1) is also known as beta-site APP cleaving enzyme 1 (beta-site amyloid precursor protein cleaving enzyme 1), memapsin-2 (membrane-associated aspartic protease 2), and aspartyl protease 2 (ASP2), β -Secretase, and is a member of the peptidase A1 protein family. BACE1 is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. BACE1 is an aspartic-acid protease important in the pathogenesis of Alzheimer's disease, and in the formation of myelin sheaths in peripheral nerve cells. The transmembrane protein contains two active site aspartate residues in its extracellular

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Human BACE-1 Protein, Fc Tag

Catalog # BA1-H5261



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protein domain and may function as a dimer. This protease is responsible for the proteolytic processing of the amyloid precursor protein (APP). Generation of the 40 or 42 amino acid-long amyloid- β peptides that aggregate in the brain of Alzheimer's patients requires two sequential cleavages of the APP. Extracellular cleavage of APP by BACE creates a soluble extracellular fragment and a cell membrane-bound fragment referred to as C99. The elevation of BACE1 levels can be induced by amyloid plaques surrounding neurons at early stages of pathology before neuron death occurs, and may drive a positive-feedback loop in AD.

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