

Active Recombinant Human BACE1 protein

Cat. No. BACE1-255H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human BACE1 protein(NP_036236.1)(Met1-Thr 457) with a quinary-aa peptide (DDDDK) at the C-terminus was expressed and purified in Human Cells.
Species	Human
Source	Human Cells
ProteinLength	1-457 aa
Form	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0.
Bio-activity	Measured by its ability to cleave a fluorescent peptide substrate Mca-Ser-Glu-Val-Asn-Leu-Asp-Ala-Glu-Phe-Arg-Lys(Dpn)-Arg-Arg-NH ₂ . Cleavage of ES004 can be measured using excitation and emission wavelengths of 320 and 405 nm, respectively. The specific activity is >0.5 pmoles/min/μg.
Molecular Mass	The recombinant human BACE1 consists of 442 amino acids and has a calculated molecular mass of 49 kDa. As a result of glycosylation, the rhBACE1 migrates as an approximately 65 kDa protein in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method.
Purity	> 95 % as determined by SDS-PAGE

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Storage Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.

GENE INFORMATION

Gene Name BACE1 beta-site APP-cleaving enzyme 1 [Homo sapiens]

Official Symbol BACE1

Synonyms BACE1; beta-site APP-cleaving enzyme 1; BACE, beta site APP cleaving enzyme; beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; aspartyl protease 2; beta-site APP cleaving enzyme 1; beta-secretase 1 precursor variant 1; transmembrane aspartic proteinase Asp2; membrane-associated aspartic protease 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme; ASP2; BACE; HSPC104; FLJ90568; KIAA1149;

Gene ID 23621

mRNA Refseq NM_001207048

Protein Refseq NP_001193977

MIM 604252

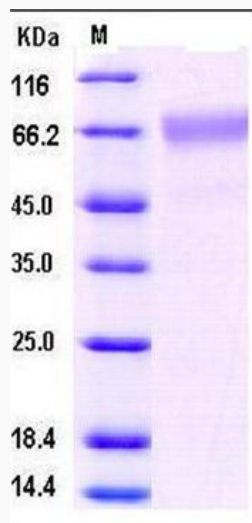
UniProt ID P56817

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SDS-PAGE



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