

## Active Recombinant Human BACE1 protein

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

### SPECIFICATION

<b>Product Overview</b>	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.
<b>Species</b>	Human
<b>Source</b>	Human Cells
<b>ProteinLength</b>	1-457 aa
<b>Form</b>	Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0.
<b>Bio-activity</b>	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 <sub>2</sub> . 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.
<b>Molecular Mass</b>	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.
<b>Endotoxin</b>	< 1.0 EU per μg of the protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE

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**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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