

## Active Recombinant Human BACE1 protein, Fc-tagged

Cat. No. BACE1-002H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BACE1 protein(NP_036236.1)(Thr22-Thr457) is expressed from HEK293 with hFc (IgG1) tag at the C-Terminus.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	22-457 aa
<b>Form</b>	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4).
<b>Bio-activity</b>	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-SEVNLDAEFRK(Dpn)RR-NH <sub>2</sub> . The specific activity is > 3 pmol/min/g.
<b>Molecular Mass</b>	The protein has a predicted MW of 75.2 kDa (pro-form) and 72.6 kDa (mature-form). Due to glycosylation, the protein migrates to 85-100 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1 EU per ug by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC
<b>Storage</b>	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

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**Reconstitution**      Dissolve the lyophilized protein in distilled water.

## 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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