

## Recombinant Human BACE1, GST-tagged

Cat. No. BACE1-102H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BACE1 (22 a.a. - 501 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein encoded by this gene. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Multiple transcript variants encoding different isoforms have been described for this gene.
<b>Molecular Mass</b>	78.54 kDa
<b>Sequence</b>	TQHGIRLPLRSGLGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGY VEMTVGSPQTLNILVDTGSSNFAVGAAPHPFLHRYRQLSSTYRDLRKGVYVY TQGWEGELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARP DDSLEPFDSLQTHVFNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTG SLWYTPIRREWYVEIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRPKKVFEAA VKSIIKASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRTILP QQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSA

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CHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLM  
VCQWRCLRCLRQQHDDFADDISLLK

**Purification** Glutathione Sepharose 4 Fast Flow

**Storage buffer** 50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.

**Applications** ELISA; WB

**Storage** Store at -80°C. Aliquot to avoid repeated freezing and thawing.

**Note** Best use within three months from the date of receipt of this protein.

**OfficialSymbol** BACE1

## GENE INFORMATION

**Gene Name** [BACE1 beta-site APP-cleaving enzyme 1 \[ Homo sapiens \]](#)

**Synonyms** BACE1; beta-site APP-cleaving enzyme 1; ASP2; BACE; HSPC104; FLJ90568; KIAA1149; beta-site APP-cleaving enzyme; Beta-secretase 1; EC 3.4.23.46; Beta-site amyloid precursor protein cleaving enzyme 1; Beta-site APP cleaving enzyme 1; Membrane-associated aspartic protease 2; Memapsin-2; Aspartyl protease 2; transmembrane aspartic proteinase Asp2; APP beta-secretase; Asp 2

**Gene ID** [23621](#)

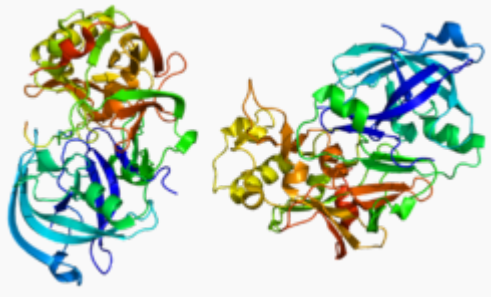
**mRNA Refseq** [NM\\_012104](#)

**Protein Refseq** [NP\\_036236](#)

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<b>MIM</b>	604252
<b>UniProt ID</b>	P56817
<b>Chromosome Location</b>	11q23.2-q23.3
<b>Pathway</b>	Alzheimer"s disease; Alzheimers Disease
<b>Function</b>	aspartic-type endopeptidase activity; beta-aspartyl-peptidase activity; enzyme binding
<b>PDB rendering based on 1fkn.</b>	

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