Recombinant Human BACE1, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human BACE1 (22 a.a. - 501 a.a.) fused with GST-tag at N-terminal, was expressed in vitro wheat germ expression system.
Species	Human
Source	Wheat Germ
Description	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.
Molecular Mass	78.54 kDa
Sequence	TQHGIRLPLRSGLGGAPLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGYY VEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKGVYVPY TQGKWEGELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARP DDSLEPFFDSLVKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTG SLWYTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLRLPKKVFEAA VKSIKAASSTEKFPDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSFRITILP QQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSA

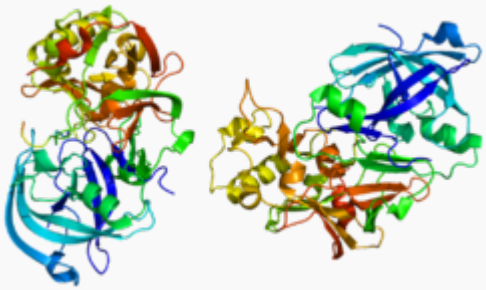
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	CHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMTIAYVMAAICALFMLPLCLM VCQWRCLRCLRQQHDDFADDISLLK
Purification	Glutathione Sepharose 4 Fast Flow
Storage buffer	50 mM Tris-HCl, 10 mM reduced Glutathione, pH 8.0 in the elution buffer.
Applications	ELISA; WB
Storage	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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MIM	604252
UniProt ID	P56817
Chromosome Location	11q23.2-q23.3
Pathway	Alzheimer"s disease; Alzheimers Disease
Function	aspartic-type endopeptidase activity; beta-aspartyl-peptidase activity; enzyme binding
PDB rendering basedon 1fkn.	

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