

## Recombinant Human BACE2, GST-tagged

Cat. No. BACE2-10121H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human BACE2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	39-398a.a.
<b>Description</b>	Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimers disease and a frequent complication of Down syndrome. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein by 2 proteases, one of which is the protein encoded by this gene. This gene localizes to the Down critical region of chromosome 21. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease. Three transcript variants encoding different isoforms have been described for this gene.
<b>Storage</b>	The protein is stored in PBS buffer at -20°C. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	1M PBS (58mM Na2HPO4,17mM NaH2PO4, 68mM NaCl, pH8. ) added with 100mM GSH and 1% Triton X-100,15%glycerol.

### GENE INFORMATION

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<b>Gene Name</b>	BACE2 beta-site APP-cleaving enzyme 2 [ Homo sapiens ]
<b>Official Symbol</b>	BACE2
<b>Synonyms</b>	BACE2; beta-site APP-cleaving enzyme 2; AEPLC; beta-secretase 2; ALP56; CEAP1; DRAP; asp 1; memapsin-1; theta-secretase; beta secretase 2; aspartyl protease 1; 56 kDa aspartic-like protease; aspartic-like protease 56 kDa; down region aspartic protease; beta-site APP cleaving enzyme 2; Down syndrome region aspartic protease; transmembrane aspartic proteinase Asp1; membrane-associated aspartic protease 1; beta-site amyloid precursor protein cleaving enzyme 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme 2; ASP1; BAE2; ASP21; CDA13;
<b>Gene ID</b>	25825
<b>mRNA Refseq</b>	NM_012105
<b>Protein Refseq</b>	NP_036237
<b>MIM</b>	605668
<b>UniProt ID</b>	Q9Y5Z0
<b>Chromosome Location</b>	21q22.3
<b>Pathway</b>	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem;
<b>Function</b>	aspartic-type endopeptidase activity; peptidase activity;

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