

## Recombinant Human BACE2, GST-tagged

Cat. No. BACE2-578TH Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Human BACE2 partial ORF (306 a.a. - 395 a.a.) recombinant protein with GST-tag at N-terminal.
<b>Species</b>	Human
<b>Source</b>	Wheat Germ
<b>Description</b>	This gene encodes an integral membrane glycoprotein that functions as an aspartic protease. The encoded protein cleaves amyloid precursor protein into amyloid beta peptide, which is a critical step in the etiology of Alzheimer's disease and Down syndrome. The protein precursor is further processed into an active mature peptide. Alternative splicing results in multiple transcript variants.
<b>Molecular Mass</b>	35.64 kDa
<b>AA Sequence</b>	TTLLRLPQKVFDAVVEAVARASLIPEFSDGFWTGSQACWNTNSETPWSYFPKISIIYLR DENSSRSFRITILPQLY IQPMMGAGLNYECYR
<b>Applications</b>	Enzyme-linked Immunoabsorbent Assay; Western Blot; Antibody Production; Protein Array
<b>Storage</b>	Store at -80°C. Aliquot to avoid repeated freezing and thawing.
<b>Storage Buffer</b>	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

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## GENE INFORMATION

<b>Gene Name</b>	BACE2 beta-site APP-cleaving enzyme 2 [ Homo sapiens (human) ]
<b>Official Symbol</b>	BACE2
<b>Synonyms</b>	BACE2; ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1; beta-site APP-cleaving enzyme 2; beta-secretase 2; memapsin-1; theta-secretase; aspartyl protease 1; 56 kDa aspartic-like protease; Down syndrome region aspartic protease; transmembrane aspartic proteinase Asp1; membrane-associated aspartic protease 1; beta-site amyloid beta A4 precursor protein-cleaving enzyme 2; EC 3.4.23.45
<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>	Alzheimer's disease
<b>Function</b>	aspartic-type endopeptidase activity

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