Recombinant Human BACE2, GST-tagged

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

SPECIFICATION

Product Overview	Recombinant Human BACE2 protein, fused to GST-tag, was expressed in E.coli and purified by GSH-sepharose.
Species	Human
Source	E.coli
ProteinLength	39-398a.a.
Description	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.
Storage	The protein is stored in PBS buffer at -20℃. Avoid repeated freezing and thawing cycles.
Storage Buffer	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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Gene Name	BACE2 beta-site APP-cleaving enzyme 2 [Homo sapiens]
Official Symbol	BACE2
Synonyms	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;
Gene ID	25825
mRNA Refseq	NM_012105
Protein Refseq	NP_036237
MIM	605668
UniProt ID	Q9Y5Z0
Chromosome Location	21q22.3
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem;
Function	aspartic-type endopeptidase activity; peptidase activity;

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