

Recombinant Human Beta-Site APP-Cleaving Enzyme 1

Cat. No. BACE1-1661H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human BACE1 is Generation of the 40 or 42 amino acid-long amyloid- β peptides.
Species	Human
Source	E.coli
Description	BACE1 (β -site of APP cleaving enzyme) or memapsin-2 is an aspartic-acid protease important in the pathogenesis of Alzheimer's disease, and in the formation of myelin sheaths in peripheral nerve cells. The transmembrane protein, contains two active site aspartate residues in its extracellular protein domain and may function as a dimer.
Biological Activity	BACE1 is biologically active as determined using our β -Secretase Activity Assay Kit.
Form	Lyophilized from 100 mM Na ₂ B ₄ O ₇ , 200 mM NaCl, pH 8.5.
Appearance	Lyophilized protein
Reconstitution	Reconstitute in dH ₂ O to a concentration of 0.1-1.0 mg/ml.
Purity	≥95% by SDS-PAGE
Storage	The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BACE-1 should be aliquoted and stored at -70°C.

Tel: 1-631-559-9269 1-516-512-3133

Email: info@creative-biomart.com Fax: 1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	BACE1 beta-site APP-cleaving enzyme 1 [Homo sapiens]
Official Symbol	BACE1
Synonyms	BACE1; beta-site APP-cleaving enzyme 1; ASP2; BACE; HSPC104; FLJ90568; KIAA1149; beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; OTTHUMP00000218630; OTTHUMP00000218631; OTTHUMP00000218632; OTTHUMP00000218633; OTTHUMP00000218635; OTTHUMP00000218636; OTTHUMP00000235006; OTTHUMP00000235007; aspartyl protease 2; beta-site APP cleaving enzyme 1; beta-secretase 1 precursor variant 1; transmembrane aspartic proteinase Asp2; membrane-associated aspartic protease 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme
Gene ID	23621
mRNA Refseq	NM_001207048
Protein Refseq	NP_001193977
MIM	604252
UniProt ID	P56817
Chromosome Location	11q23-q24
Pathway	Alzheimer"s disease
Function	aspartic-type endopeptidase activity; beta-aspartyl-peptidase activity; enzyme

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binding; peptidase activity

PDB rendering based
on 1fkn.

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