

Recombinant Human BACE1, FLAG-tagged

Cat. No. BACE1-27426TH Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant BACE1 protein (Human), with a C-terminal DYKDDDDK-tag, extracellular domain. Expressed in HEK-293 cells
Species	Human
Description	Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimers 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.
Conjugation	FLAG
Tissue specificity	Expressed at high levels in the brain and pancreas. In the brain, expression is highest in the substantia nigra, locus coruleus and medulla oblongata.
Biological activity	Specific Activity: >10,000 units per mg protein.
Form	Liquid
Purity	>90% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20mM HEPES, 125mM Sodium chloride, pH 7.4

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Storage	Store at +4°C.
Sequence Similarities	Belongs to the peptidase A1 family.
GENE INFORMATION	
Gene Name	BACE1 beta-site APP-cleaving enzyme 1 [Homo sapiens]
Official Symbol	BACE1
Synonyms	BACE1; beta-site APP-cleaving enzyme 1; BACE, beta site APP cleaving enzyme; beta-secretase 1;
Gene ID	23621
mRNA Refseq	NM_001207048
Protein Refseq	NP_001193977
MIM	604252
Uniprot ID	P56817
Chromosome Location	11q23-q24
Pathway	Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem;
Function	aspartic-type endopeptidase activity; beta-aspartyl-peptidase activity; enzyme binding; peptidase activity;

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