

## Recombinant Human BACE1 Protein

Cat. No. BACE1-779H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant human BACE1 protein without tag was expressed in HEK293.
<b>Species</b>	Human
<b>Source</b>	HEK293
<b>ProteinLength</b>	501
<b>Description</b>	This gene encodes a member of the peptidase A1 family of aspartic proteases. Alternative splicing results in multiple transcript variants, at least one of which encodes a preproprotein that is proteolytically processed to generate the mature protease. This transmembrane protease catalyzes the first step in the formation of amyloid beta peptide from amyloid precursor protein. Amyloid beta peptides are the main constituent of amyloid beta plaques, which accumulate in the brains of human Alzheimer's disease patients.
<b>Form</b>	Lyophilized
<b>Molecular Mass</b>	49.2 kDa
<b>AA Sequence</b>	MAQALPWLLLWMGAGVLP AHGTQH GIRLPLR SGLGGAPLGLRLPRETDEEPEEPG RRGSFVEMVDNLRGKSGQGYVEMTVGSPQTLNILDVDTGSSNFAVGAAPHPFLH RYYQRQLSSTYRDLRKG VYPYTQ GKWEGELGTDLV SIPHGPNVTVRANIAAITESD KFFINGSN WEGILGLAYAEIAR PDDSLEPFFDSL VKQTHV PNLFSLQLCGAGFPLNQS EVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWYVEIIVRVEINGQDLKMDCKEYNY

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DKSIVDSGTTNLRPLPKKVFEAAVKSIIKAASSTEKFPDGFVLGEQLVCWQAGTTPWNI  
 FPMVISLYLMGEVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVI  
 MEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDEST  
 LMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQQHDDFADDISLLK

**Purity** > 98%

**Applications** WB; ELISA; FACS; FC

**Stability** This bioreagent is stable at 4 centigrade (short-term) and -70 centigrade(long-term). After reconstitution, sample may be stored at 4 centigrade for 2-7 days and below -18 centigrade for future use.

**Storage** At -20 centigrade.

**Concentration** 1 mg/mL

**Storage Buffer** PBS (pH 7.4-7.5). Sterile-filtered colorless solution.

**Reconstitution** Reconstitute in sterile distilled H<sub>2</sub>O to no less than 100 µg/mL; dilute reconstituted stock further in other aqueous solutions if needed. Please review COA for lot-specific instructions. Final measurements should be determined by the end-user for optimal performance.

## GENE INFORMATION

**Gene Name** BACE1 beta-site APP-cleaving enzyme 1 [ Homo sapiens (human) ]

**Official Symbol** BACE1

**Synonyms** BACE1; beta-site APP-cleaving enzyme 1; BACE, beta site APP cleaving enzyme;

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beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; 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; ASP2; BACE; HSPC104; FLJ90568; KIAA1149;

**Gene ID** [23621](#)

**mRNA Refseq** [NM\\_001207048](#)

**Protein Refseq** [NP\\_001193977](#)

**MIM** [604252](#)

**UniProt ID** [P56817](#)

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