

Recombinant Human BACE1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. BACE1-2682H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	BACE1 MS Standard C13 and N15-labeled recombinant protein (NP_036236) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
Description	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.
Molecular Mass	55.8 kDa
AA Sequence	MAQALPWLLLWMGAGVLPAGHTQHGIRLPLRSGLGGA PLGLRLPRETDEEPEEPG RRGSFVEMVDNLRGKSGQGYVEMTVGSPPQTLNILVD TGSSNFAVGAAPHPFLH RYYQRQLSSTYRDLRKG VYPYTQGWEGELGTDLV SIPHGPNVTVRANIAAITESD KFFINGSNWEGILGLAYAEIARPDDSLPFFDSL VKQTHVPNLFSLQLCGAGFPLNQS EVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWY YEVIVRVEINGQDLKMDCKEYNY DKSIVDSGTTNLR LPKKVFEAAVKS IKAASSTEKFPDGFWLGEQLVCWQAGTTPWNI

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FPVISLYLMGEVTNQSFRTILPQQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVI
MEGFYVVFDRARKRIGFAVSACHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDEST
LMTIAYVMAAICALFMLPLCLMVCQWRCLRCLRQQHDDFADDISLLKTRTRPLEQKLI
SEEDLAANDILDYKDDDDKV

Purity > 80% as determined by SDS-PAGE and Coomassie blue staining

Stability Stable for 3 months from receipt of products under proper storage and handling conditions.

Storage Store at -80 centigrade. Avoid repeated freeze-thaw cycles.

Concentration 50 µg/mL as determined by BCA

Storage Buffer 100 mM glycine, 25 mM Tris-HCl, pH 7.3.

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; 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

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mRNA Refseq	NM_012104
Protein Refseq	NP_036236
MIM	604252
UniProt ID	P56817

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