

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

MAQALPWLLLWMGAGVLP AHGTQH GIRLPLR SGLGGAPLGLRLPRETDEEPEEPG
 RRG SFVEMVDNLRGKSGQGYVEMTVGSPQTLNILDVDTGSSNFAVGAAPHPFLH
 RYYQRQLSSTYRDLRKG VYPYTQ GKWEGELGTDLVSIPHGNVTVRANIAAITESD
 KFFINGSN WEGILGLAYAEIARPDDSLEPFFDSL VKQTHV PNLFSLQLCGAGFPLNQS
 EVLASVGGSMIIGGIDHSLYTGSLWYTPIRREWYVEIIVRVEINGQDLKMDCKEYNY
 DKSIVDSGTTNLR LPKKVFEAAVKS IKAASSTEKFPDGF LGEQLVCWQAGTTPWNI

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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](#)

SDS-PAGE



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