

Recombinant Human beta-site APP-cleaving enzyme 1 Protein, His tagged

Cat. No. BACE1-13H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human BACE-1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Species	Human
Source	Baculovirus
ProteinLength	22-457aa
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.
Tag	C-His
Form	Liquid
Bio-activity	> 5 pmol/min/μg in which one unit will convert 1.0 pmole of Mca-SEVNLDAEFRK(Dnp)RR-NH ₂ to MCA- Pro-Leu-OH per minute at pH 3.5 at 25 centigrade.

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Molecular Mass	49.2 kDa
AA Sequence	TQHGIRLPLRSGLGGA PLGLRLPRETDEEPEEPGRRGSFVEMVDNLRGKSGQGY VEMTVGSPPQTLNILVDTGSSNFAVGAAPHPFLHRYYQRQLSSTYRDLRKG VYVPY TQGKWE GELGTDLVSIPHGPNVTVRANIAAITESDKFFINGSNWEGILGLAYAEIARP DDSLEPFFDSL VKQTHVPNLFSLQLCGAGFPLNQSEVLASVGGSMIIGGIDHSLYTG SLWYTPIRREWYYEVIIVRVEINGQDLKMDCKEYNYDKSIVDSGTTNLR LPKKVFEAA VKSIKAASSTEKF PDGFWLGEQLVCWQAGTTPWNIFPVISLYLMGEVTNQSF RITILP QQYLRPVEDVATSQDDCYKFAISQSSTGTVMGAVIMEGFYVVFDRARKRIGFAVSA CHVHDEFRTAAVEGPFVTLDMEDCGYNIPQTDESTLMT
Endotoxin	< 1 EU/μg, determined by LAL method.
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5 mg/mL (determined by BCA assay)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
References	1. Andrew RJ., et al. (2013) Proc Natl Acad Sci U S A. 114:E9665-E9674. 2. Brendel M., et al. (2018) Theranostics. 8:4957-4968.

GENE INFORMATION

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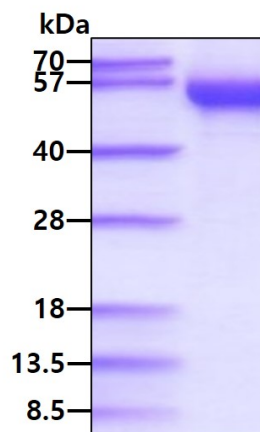
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Gene Name	BACE1 beta-site APP-cleaving enzyme 1 [Homo sapiens (human)]
Official Symbol	BACE1
Synonyms	BACE1; beta-site APP-cleaving enzyme 1; BACE, beta site APP cleaving enzyme; beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; aspartyl protease 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
mRNA Refseq	NM_012104
Protein Refseq	NP_036236
MIM	604252
UniProt ID	P56817

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SDS-PAGE

3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

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