

Active Recombinant Human BACE1 protein(Met1-Thr457), hFc-tagged

Cat. No. BACE1-253H **Lot. No.** (See product label)

SPECIFICATION	
Product Overview	Recombinant Human BACE1 protein(NP_036236.1)(Met1-Thr457), fused with C-terminal hFc tag, was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	Met1-Thr457
similar	BACE1
Alias	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;
Conjugate	C-hFc
Form	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
Bioactivity	Measured by its ability to cleave a fluorogenic peptide substrate, Mca-

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	SEVNLDAEFRK(Dpn)RR-NH ₂ . The specific activity is >0.5 pmoles/min/μg.
MolecularMass	The recombinant human BACE1/Fc is a disulfide-linked homodimeric protein. The reduced monomer consists of 674 amino acids and has a calculated molecular mass of 75 kDa. As a result of glycosylation, the rhBACE1/Fc monomer migrates as an approximately 100-105 kDa protein in SDS-PAGE under reducing conditions.
Endotoxin	< 1.0 EU per μg of the protein as determined by the LAL method
Purity	> 90 % as determined by SDS-PAGE
Storage	Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
Reconstitution	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents.
GeneName	BACE1 beta-site APP-cleaving enzyme 1 [Homo sapiens]
GeneNameWeblink	23621
OfficialSymbol	BACE1
OfficialSymbolWeblink	23621
GenelD	23621
GenelDWeblink	23621
mRNARefseq	NM_001207048

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mRNARefseqWeblink	NM_001207048.1
ProteinRefseqWeblink	NP_001193977.1
MIMWeblink	604252
UniProtID	P56817
UniProtIDWeblink	P56817

GENE INFORMATION

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;
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