

## 32-6677: BACE1 Human

Beta-Secretase, Membrane-Associated Aspartic Protease, Beta-Site APP Cleaving Enzyme, Beta-Site APP-Cleaving Enzyme, Aspartyl Protease, EC 3.4.23.46, Memapsin-2, Asp, BACE, Â ASP2, Beta-Site Alternative Amyloid Beta A4 Precursor Protein-Cleaving Enzyme, Beta-Site Amyloid Precursor Protein Cleaving Enzyme, Transmembrane Aspartic Proteinase Asp2, Beta-Secretase 1 Precursor Variant, Beta-Site APP-Cleaving Enzyme, APP Beta-Secretase, EC 3.4.23, KIAA1149, HSPC104.

## **Description**

Name :

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

Beta-secretase 1 or BACE1 or beta-site amyloid precursor protein cleaving enzyme 1, is a protein that is encoded by the BACE1 gene in humans. Expression of BACE1 is seen primarily in neurons as it is crucial for the creation of myelin sheats in the peripheric nervous system. Beta-secretase 1Â is a proteas that is located in the cell membrane (transmembrane). The enzyme consists of 2 active sites (aspartate residues) in the extracellular domain that can act as a dimer.

BACE1 Human produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 442 amino acids (22-457 a.a.) and having a molecular mass of 49.2kDa. BACE1 is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

## **Product Info**

Amount :	10 µg / 50 µg
Purification :	Greater than 90.0% as determined by SDS-PAGE.
Content :	BACE1 protein solution containing Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.
Storage condition :	Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.
Amino Acid :	TQHGIRLPLR SGLGGAPLGL RLPRETDEEP EEPGRRGSFV EMVDNLRGKS GQGYYVEMTV GSPPQTLNIL VDTGSSNFAV GAAPHPFLHR YYQRQLSSTY RDLRKGVYVP YTQGKWEGEL GTDLVSIPHG PNVTVRANIA AITESDKFFI NGSNWEGILG LAYAEIARPD DSLEPFFDSL VKQTHVPNLF SLQLCGAGFP LNQSEVLASV GGSMIIGGID HSLYTGSLWY TPIRREWYYE VIIVRVEING QDLKMDCKEY NYDKSIVDSG TTNLRLPKKV FEAAVKSIKA ASSTEKFPDG FWLGEQLVCW QAGTTPWNIF PVISLYLMGE VTNQSFRITI LPQQYLRPVE DVATSQDDCY KFAISQSSTG TVMGAVIMEG FYVVFDRARK RIGFAVSACH VHDEFRTAAV EGPFVTLDME DCGYNIPQTD ESTLMTHHHH HH.

## **Application Note**

Specific activity is > 5 pmol/min/ug in which one unit will convert 1.0 pmole of Mca-SEVNLDAEFRK(Dnp)RR-NH2 to MCA- Pro-Leu-OH per minute at pH 3.5 at 25C.