
Product Data Sheet

Product Name: BACE1 Human
 Cat. No.: GP26127
 Batch No.: 1

Product Data

Purity >98% Source Sf9,Baculovirus cells.

Physical Appearance solid Shipping Condition withIcePacks

Synonyms 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, ASP2, Beta-Site 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.

Amino Acid Sequence
 TQHGIRLPLR SGLGGAPLGL RLPRETDEEP EEPGRRGSFV EMVDNLRGKS
 GQGYVEMTV GSPPQTLNIL VDTGSSNFAV GAAPHPFLHR YYQRQLSSTY
 RDLRKGVYVP YTQGKWEDEL GTDLVSIPHG PNVTVRANIA AITESDKFFI
 NGSNWEGILG LAYAEIARPD DSLEPFFDSL VKQTHVPNLF SLQLCGAGFP
 LNQSEVLASV GGSMIIGGID HSLYTGSLWY TPIRREWYVE VIIVRVEING
 QDLKMDCKEY NYDKSIVDSG TTNLRLPKKV FEA AVKSIKA ASSTEKFPDG
 FWLGEQLVCW QAGTTPWNIF PVISLYLMGE VTNQSFRITI LPQQYLRPVE
 DVATSQDDCY KFAISQSSTG TVMGAVIMEG FYVVFDRARK RIGFAVSACH
 VHDEFRTAAV EGPFVTLDM E DCGYNIPQTD ESTLMTHHHH HH.

Formulation BACE1 protein solution containing Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol.

Introduction

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 sheaths in the peripheral nervous system. Beta-secretase 1 is a protease that is located in the cell membrane (transmembrane). The enzyme consists of 2 active sites (aspartate residues) in the

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extracellular domain that can act as a dimer.

Biological Activity

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.

Stability

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.

Background

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.

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