BACE1 Peptide - N-Terminal Region Blocking Peptide

PRODUCT OVERVIEW

Product Name	BACE1, Blocking Peptide
Full Product Name	BACE1 Peptide - N-terminal region
Product Gene Name	BACE1 blocking peptide
Product Synonym Gene Name	ASP2; BACE; FLJ90568; HSPC104; KIAA1149
Form/Format	Lyophilized powder
Preparation and Storage	Add 100ul of sterile PBS. Final peptide concentration is 1 mg/ml in PBS. For longer periods of storage, store at -20 degree C. Avoid repeat freeze-thaw cycles.
Antibody/Peptide Pairs	BACE1 peptide (MBS3233319) is used for blocking the activity of BACE1 antibody (MBS3208357)
Molecular Weight	51kDa
OMIM	604252
Product Categories/Family for BACE1 blocking peptide	Peptide
Applications Tested/Suitable for BACE1 blocking peptide	Immunohistochemistry (IHC), Western Blot (WB)
Related Product Information for BACE1 blocking peptide	This is a synthetic peptide designed for use in combination with anti-BACE1 antibody made Target Description: Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein. BACE1, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi.Cerebral deposition of amyloid beta peptide is an early and critical feature of Alzheimer's disease. Amyloid beta peptide is generated by proteolytic cleavage of amyloid precursor protein (APP) by two proteases, one of which is the protein encoded by this gene. The encoded protein, a member of the peptidase A1 protein family, is a type I integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Four transcript variants encoding different isoforms have been described for this gene.
Other Notes	Small volumes of BACE1 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for BACE1 purchase	MBS3233319 is a blocking peptide targeting BACE1. Also known as BACE1 Peptide - N-terminal region.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for BACE1. It may not necessarily be applicable to this product.

NCBI GI #	6912266
NCBI GeneID	23621
NCBI Accession #	NP_036236
UniProt Primary Accession #	P56817
UniProt Related Accession #	P56817
GenBank Nucleotide #	NM_012104

NCBI Official Full Name	beta-secretase 1 isoform A preproprotein
NCBI Official Synonym Full Names	beta-secretase 1
NCBI Official Symbol	BACE1
NCBI Official Synonym Symbols	ASP2; BACE; HSPC104
UniProt Protein Name	Beta-secretase 1
UniProt Synonym Protein Names	Aspartyl protease 2; ASP2; Asp 2; Beta-site amyloid precursor protein cleaving enzyme 1; Beta-site APP cleaving enzyme 1; Memapsin-2; Membrane-associated aspartic protease 2
Protein Family	Beta-secretase
UniProt Gene Name	BACE1
UniProt Synonym Gene Names	BACE; KIAA1149; ASP2; Asp 2
UniProt Entry Name	BACE1_HUMAN
NCBI Protein Information	beta-secretase 1
NCBI Summary for BACE1	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. [provided by RefSeq, Nov 2015]
UniProt Comments for BACE1	BACE: an integral membrane glycoprotein and aspartic protease that is found mainly in the Golgi. Cleaves APP at the amino terminus of the A-beta peptide sequence, leading to the generation and extracellular release of beta-cleaved soluble APP, and a corresponding cell-associated carboxy-terminal fragment which is later release by gamma-secretase. Four splice-variant isoforms have been described. Protein type: Protease; EC 3.4.23.46; Membrane protein, integral Chromosomal Location of Human Ortholog: 11q23.2-q23.3 Cellular Component: multivesicular body; Golgi apparatus; cell surface; cytoplasmic vesicle membrane; integral to plasma membrane; axon; endoplasmic reticulum; late endosome; integral to membrane; plasma membrane; trans-Golgi network; endosome Molecular Function: protein binding; enzyme binding; beta-amyloid binding; beta-aspartyl-peptidase activity; aspartic-type endopeptidase activity Biological Process: beta-amyloid metabolic process; membrane protein ectodomain proteolysis; proteolysis
Research Articles on BACE1	**1.** a gender dimorphism was observed in BACE1 gene expression in the patients in a way that the male patients manifested a statistically significant higher levels of BACE1 expression
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