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Recombinant mouse BACE-2 protein

Catalog Number: ATGP4110

PRODUCT INFORMATION

Expression system

HEK293

Domain

20-462aa

UniProt No.

Q9JL18

NCBI Accession No.

NP 062390.3

Alternative Names

ARP1, ASP1, ASP21, BAE2, CDA13, CEAP1, DRAP, 1110059C24Rik, AEPLC, Al850424, ALP56, beta-site APP-cleaving enzyme 2, beta-secretase 2, Aspartyl protease 1, Asp 1, Beta-site amyloid precursor protein cleaving enzyme 2, Memapsin-1, Membrane-associated aspartic protease 1, Theta-secretase

PRODUCT SPECIFICATION

Molecular Weight

48.6kDa (449aa)

Concentration

0.25mg/ml (determined by Absorbance at 280nm)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 20 pmol/min/ug in which one unit will convert 1.0pmole of Mca-SEVNLDAEFRK(Dnp)RR-NH2 to Mca- Pro-Leu-OH per minute at pH 3.5 at 25C.

Tag

His-Tag

Application

SDS-PAGE, Enzyme Activity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.



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BACKGROUND

Description

BACE-2, also known as beta secretase 2, belongs to the peptidase A1 family. It is an aspartic protease that is a close homolog of BACE-1. However, BACE-2 differs from BACE-1 in several aspects including pro-enzyme activation, substrate binding sites, transcriptional regulation, and function in A β peptide production. It has been shown to play a key role in insulin receptor trafficking in the pancreas where it is expressed in β cells and affects glucose tolerance and was suggested as a promising target for improving β cell function in diabetes. Recombinant mouse BACE-2, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.

Amino acid Sequence

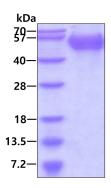
AVPALAPAPF TLPLQVARAT NHRASAVPGL GTPELPRADG LALALEPVRA TANFLAMVDN LQGDSGRGYY LEMLIGTPPQ KVQILVDTGS SNFAVAGAPH SYIDTYFDSE SSSTYHSKGF DVTVKYTQGS WTGFVGEDLV TIPKGFNSSF LVNIATIFES ENFFLPGIKW NGILGLAYAA LAKPSSSLET FFDSLVAQAK IPDIFSMQMC GAGLPVAGSG TNGGSLVLGG IEPSLYKGDI WYTPIKEEWY YQIEILKLEI GGQNLNLDCR EYNADKAIVD SGTTLLRLPQ KVFDAVVEAV ARTSLIPEFS DGFWTGAQLA CWTNSETPWA YFPKISIYLR DENASRSFRI TILPQLYIQP MMGAGFNYEC YRFGISSSTN ALVIGATVME GFYVVFDRAQ RRVGFAVSPC AEIEGTTVSE ISGPFSTEDI ASNCVPAQAL NEP<HHHHHH+>

General References

Sun, X. et al. (2006) FASEB J. 19:739-749. Hussain, I. et al. (2001) J. Biol. Chem. 276:23322-23328.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain

