

Datasheet for ABIN7596265

BACE2 Protein (AA 20-462) (His tag)



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Overview

Quantity:	250 µg
Target:	BACE2
Protein Characteristics:	AA 20-462
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This BACE2 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Enzyme Activity Assay (EAA)

Product Details

Sequence:	AVPALAPAPF TLPLQVARAT NHRASAVPGL GTPELPRADG LALALEPVRA TANFLAMVDN LQGDSGRGYY LEMLIGTPPQ KVQILVDTGS SNFAVAGAPH SYIDTYFDSE SSSTYHSKGF DVTVKYTQGS WTGFVGEDLV TIPKGFNSSF LVNIATIFES ENFFLPGIKW NGILGLAYAA LAKPSSSLET FFDSLVAQAK IPDIFSMQMC GAGLPVAGSG TNGGSLVLGG IEPSLYKGGI WYTPIKEEWY YQIEILKLEI GGQNLNLDCR EYNADKAIVD SGTTLRLRPQ KVFDVAVEAV ARTSLIPEFS DGFWTGAQLA CWTNSETPWA YFPKISIIYLR DENASRSFRI TILPQLYIQP MMGAGFNYEC YRFGISSSTN ALVIGATVME GFYVVFDRAG RRVGFAVSPC AEIEGTTVSE ISGPFSTEDI ASNCVPAQAL NEP
Purity:	> 95% by SDS-PAGE
Endotoxin Level:	< 1 EU per 1ug of protein (determined by LAL method)

Product Details

Biological Activity Comment: 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.

Target Details

Target: BACE2

Alternative Name: BACE-2 ([BACE2 Products](#))

Background: 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.

Molecular Weight: 48.6kDa (449aa)

NCBI Accession: [NP_062390](#)

Application Details

Application Notes: Optimal working dilution should be determined by the investigator.

Restrictions: For Research Use only

Handling

Format: Liquid

Concentration: 0.25 mg/mL

Storage: 4 °C, -20 °C, -80 °C

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