Active Recombinant Mouse Bace2 Protein (20-462aa), C-His-tagged

Cat. No. Bace2-11M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse BACE-2 (20-462aa), fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Species	Mouse
Source	HEK293
ProteinLength	20-462 aa
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 Aβ 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.
Form	Liquid
Bio-activity	Specific activity is > 20 pmol/min/μg 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 25 centigrade.

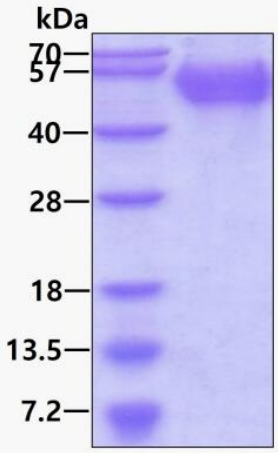
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Molecular Mass	48.6 kDa (449 aa)
AA Sequence	AVPALAPAPFTLPLQVARATNHRASAVPGLGTPELPRADGLALALEPVRATANFLAM VDNLQGDSGRGYYLEMLIGTPPQKVQILVDTGSSNFAVAGAPHSYIDTYFDSESSST YHSKGFDVTVKYTQGSWTGFVGEDLVTIPKGFNSSFLVNIATIFESENFFLPGIKWNG ILGLAYAALAKPSSSLETFFDSLVAQAKIPDIFSMQMCGAGLPVAGSGTNGGSLVLG GIEPSLYKGDIWYTPIKEEWYYQIEILKLEIGGQNLNLDCREYNADKAIVDSGTTLLRL PQKVFDAVVEAVARTSLIPEFSDGFWTGAQLACWTNSETPWAYFPKISIYLRDENAS RSFRITILPQLYIQPMMGAGFNYECYRFGISSSTNALVIGATVMEGFYVVFDRAQRRV GFAVSPCAEIEGTTVSEISGPFSTEDIASNCVPAQALNEP
Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 95% by SDS-PAGE
Applications	SDS-PAGE, Enzyme Activity
Notes	For research use only. This product is not intended or approved for human, diagnostics or veterinary use.
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -80 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280 nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

Gene Name	Bace2 beta-site APP-cleaving enzyme 2 [Mus musculus (house mouse)]

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Official Symbol	Bace2
Synonyms	BACE2; beta-site APP-cleaving enzyme 2; beta-secretase 2; ASP1; asp 1; memapsin-1; theta-secretase; aspartyl protease 1; beta-site APP cleaving enzyme 2; membrane-associated aspartic protease 1; beta-site amyloid precursor protein cleaving enzyme 2; ARP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1; AI850424; 1110059C24Rik
Gene ID	56175
mRNA Refseq	NM_019517
Protein Refseq	NP_062390
UniProt ID	Q9JL18
SDS-PAGE	 3 μg by SDS-PAGE under reducing condition and visualized by coomassie blue stain

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