

Active Recombinant Mouse BACE2 Protein, His-Tagged

Cat. No. BACE2-33M Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant mouse BACE2 (Q9JL18) (Met1-Pro462) was expressed with a C-terminal polyhistidine tag.
Species	Mouse
Source	HEK293
ProteinLength	1-462 a.a.
Description	BACE2, also known as beta secretase 2, belongs to the peptidase A1 family. It is a protease known to be an important enzyme involved in the cellular pathways. BACE2 has been shown to interact with GGA1 and GGA2. It is the major β-secretase in vivo. BACE2 is located on chromosome 21 and may play a role in alzheimer's disease pathogenesis in down syndrome(DS). Overexpression of BACE2 by lentivirus markedly reduced amyloid β protein production in primary neurons. Despite an extra copy of the BACE2 gene in DS and the increase of its transcription, BACE2 protein levels are unchanged.
Form	Sterile PBS, pH 7.4
Bio-activity	Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-AR-NH₂. The specific activity is >50 pmoles/min/μg.
Molecular Mass	The recombinant mouse BACE2 comprises 454 amino acids and has a predicted

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molecular mass of 49.2 kDa. The apparent molecular mass of the protein is approximately 55 kDa in SDS-PAGE under reducing conditions due to glycosylation.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method

Purity > 95 % as determined by SDS-PAGE

Storage Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

GENE INFORMATION

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

Official Symbol [Bace2](#)

Synonyms ARP1; ASP1; BAE2; DRAP; AEPLC; ALP56; ASP21; CDA13; CEAP1; AI850424; 1110059C24Rik

Gene ID [56175](#)

mRNA Refseq [NM_019517.5](#)

Protein Refseq [NP_062390.3](#)

UniProt ID [Q9JL18](#)

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