

Recombinant Mouse BACE2/Beta secretase 2 Protein (His Tag)

Catalog No. PKSM040382

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

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

DRAP

Species Mouse

Expression Host HEK293 Cells **Sequence** Met1-Pro462 Q9JL18 Accession Calculated Molecular Weight 49.2 kDa Observed molecular weight 55 kDa Tag C-His

Bioactivity Measured by its ability to cleave a fluorogenic peptide substrate Mca-KPLGL-Dpa-

AR-NH2. The specific activity is > 50 pmoles/min/µg.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

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

Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to **Storage**

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from sterile PBS, pH 7.4

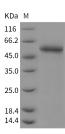
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

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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 βsecretase 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.

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