



Recombinant Protein Technical Manual

**Recombinant Mouse BACE2/Beta secretase 2
Protein (His Tag)(Active)**
RPES3080

Product Data:

Product SKU: RPES3080

Size: 20µg

Species: Mouse

Expression host: HEK293 Cells

Uniprot: Q9JL18

Protein Information:

Molecular Mass: 49.2 kDa

AP Molecular Mass: 55 kDa

Tag: C-His

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.

Purity: > 95 % as determined by SDS-PAGE

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

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -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

Reconstitution: Please refer to the printed manual for detailed information.

Application:

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

Immunogen Information:

Sequence: Met1-Pro462

Background:

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.