

# Recombinant Human Beta-Site APP-Cleaving Enzyme 1

Cat. No. BACE1-1661H Lot. No. (See product label)

## SPECIFICATION

|                            |  |
|----------------------------|--|
| <b>Product Overview</b>    | Recombinant human BACE1 is Generation of the 40 or 42 amino acid-long amyloid- $\beta$ peptides.   |
| <b>Species</b>             | Human  |
| <b>Source</b>              | E.coli   |
| <b>Description</b>         | BACE1 ( $\beta$ -site of APP cleaving enzyme) or memapsin-2 is an aspartic-acid protease important in the pathogenesis of Alzheimer"s disease, and in the formation of myelin sheaths in peripheral nerve cells. The transmembrane protein, contains two active site aspartate residues in its extracellular protein domain and may function as a dimer. |
| <b>Biological Activity</b> | BACE1 is biologically active as determined using our $\beta$ -Secretase Activity Assay Kit.  |
| <b>Form</b>                | Lyophilized from 100 mM Na <sub>2</sub> B <sub>4</sub> O <sub>7</sub> , 200 mM NaCl, pH 8.5.   |
| <b>Appearance</b>          | Lyophilized protein  |
| <b>Reconstitution</b>      | Reconstitute in dH <sub>2</sub> O to a concentration of 0.1-1.0 mg/ml.   |
| <b>Purity</b>              | $\geq$ 95% by SDS-PAGE   |
| <b>Storage</b>             | The lyophilized protein is best-stored desiccated below 0°C. Reconstituted BACE-1 should be aliquoted and stored at -70°C.   |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

## GENE INFORMATION

|                            |  |
|----------------------------|--|
| <b>Gene Name</b>           | BACE1 beta-site APP-cleaving enzyme 1 [ Homo sapiens ]   |
| <b>Official Symbol</b>     | BACE1  |
| <b>Synonyms</b>            | BACE1; beta-site APP-cleaving enzyme 1; ASP2; BACE; HSPC104; FLJ90568; KIAA1149; beta-secretase 1; asp 2; memapsin-2; APP beta-secretase; OTTHUMP00000218630; OTTHUMP00000218631; OTTHUMP00000218632; OTTHUMP00000218633; OTTHUMP00000218635; OTTHUMP00000218636; OTTHUMP00000235006; OTTHUMP00000235007; aspartyl protease 2; beta-site APP cleaving enzyme 1; beta-secretase 1 precursor variant 1; transmembrane aspartic proteinase Asp2; membrane-associated aspartic protease 2; beta-site amyloid beta A4 precursor protein-cleaving enzyme |
| <b>Gene ID</b>             | 23621  |
| <b>mRNA Refseq</b>         | NM_001207048   |
| <b>Protein Refseq</b>      | NP_001193977   |
| <b>MIM</b>                 | 604252   |
| <b>UniProt ID</b>          | P56817   |
| <b>Chromosome Location</b> | 11q23-q24  |
| <b>Pathway</b>             | Alzheimer"s disease  |
| <b>Function</b>            | aspartic-type endopeptidase activity; beta-aspartyl-peptidase activity; enzyme   |

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binding; peptidase activity

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