# Active Recombinant Human APP protein, hFc-tagged

**Cat. No.** APP-586H **Lot. No.** (See product label)

## SPECIFICATION

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| **Product Overview** | Active Recombinant Human APP protein(NP_958816.1) (Met 1-Leu 669) was expressed in HEK293 with the C-terminal fused Fc region of human IgG1. |
| **Species** | Human |
| **Source** | HEK293 |
| **ProteinLength** | 1-669 aa |
| **Form** | Lyophilized from sterile PBS, pH 7.4. |
| **Bio-activity** | Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2. The IC50 value is < 1.2 nM. |
| **Molecular Mass** | The recombinant human APP/Fc is a disulfide-linked homodimeric protein after removal of the signal peptide. The reduced monomer consists of 890 amino acids and predicts a molecular mass of 101 kDa. By SDS-PAGE under reducing conditions, the apparent molecular mass of rhAPP/Fc monomer is approximately 150-160 kDa due to the 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°C to -80°C upon receiving. Recommend to |

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| | aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. |
| **Reconstitution** | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 ug/ul. Centrifuge the vial at 4°C before opening to recover the entire contents. |

## GENE INFORMATION

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| **Gene Name** | APP amyloid beta (A4) precursor protein [ Homo sapiens ] |
| **Official Symbol** | APP |
| **Synonyms** | APP; amyloid beta (A4) precursor protein; AD1, Alzheimer disease; amyloid beta A4 protein; peptidase nexin II; preA4; protease nexin-II; peptidase nexin-II; beta-amyloid peptide; alzheimer disease amyloid protein; cerebral vascular amyloid peptide; AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; CTFgamma; |
| **Gene ID** | 351 |
| **mRNA Refseq** | NM_000484 |
| **Protein Refseq** | NP_000475 |
| **MIM** | 104760 |
| **UniProt ID** | P05067 |

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