

Recombinant HumanAmyloid-beta precursor protein/APP (1-687) Protein

Catalog No.: RP01699 **Recombinant** **1 Publications**

Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human | 351 | P05067 |

Tags

C-6His

Synonyms

AAA; AD1; PN2; ABPP; APPI; CVAP; ABETA; PN-II; preA4; CTFgamma; alpha-sAPP;APP

Product Information

| Source | Purification |
|--------------|--------------------|
| HEK293 cells | > 97% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 78.59 kDa | 100-120 kDa |

Endotoxin

<0.1EU/μg

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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Background

Amyloid β precursor-like protein 2 (APLP2) has been determined to serve an important role in the progression of a number of cancer types. APLP2 expression was significantly associated with disease-specific survival (P<0.001). APLP2 may be used to potentially predict patient prognosis, and to guide clinical diagnosis and treatment in CCRCC.

Basic Information

Description

Recombinant HumanAmyloid-beta precursor protein/APP (1-687) Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Lys687) of human APP (Accession #NP_000475.1) fused with a 6×His tag at the C-terminus.

Bio-Activity

Measured by its ability to inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH2 (Catalog # ES002). The IC50 value is < 0.24 nM.

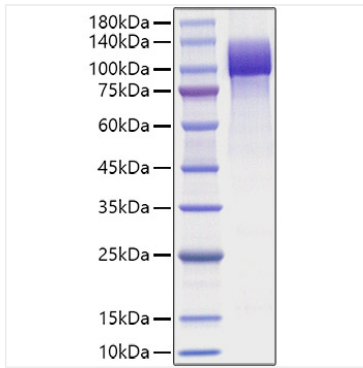
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

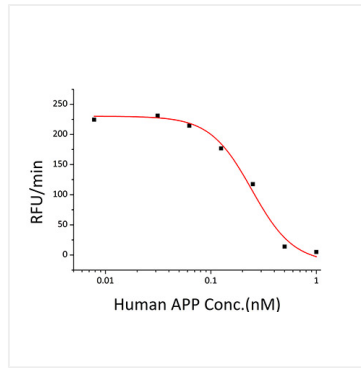
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human APP Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 100-120 kDa.



Recombinant Human APP inhibit trypsin cleavage of a fluorogenic peptide substrate, Mca-RPKPVE-Nval-WRK(Dnp)-NH₂ (Catalog # ES002). The IC₅₀ value is < 0.24 nM, as measured with under the described conditions.