

RP00705

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Recombinant Golden hamster PrP(A117V) Protein

Catalog No.: RP00705

Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
<i>E. coli</i>	101829062	P04273

Tags

No-Tag

Synonyms

PRNP; PRP , Major prion protein; PrP;
PrP27-30; PrP33-35C; CD230

Product Information

Source	Purification
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

Endotoxin

< 0.1EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.2 μm filtered solution of PBS, 0.1mM AEBSF. Contact us for customized product form or formulation.

Reconstitution

Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water.

Background

PrP May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May promote myelin homeostasis through acting as an agonist for ADGRG6 receptor. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis. Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu²⁺ or Zn²⁺ for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains.

Basic Information

Description

Recombinant Golden hamster PrP(A117V) Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Lys23-Ser231) of Golden hamster PrP(A117V) (Accession #XP_005068717.1) fused with no additional amino acid.

Bio-Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

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.

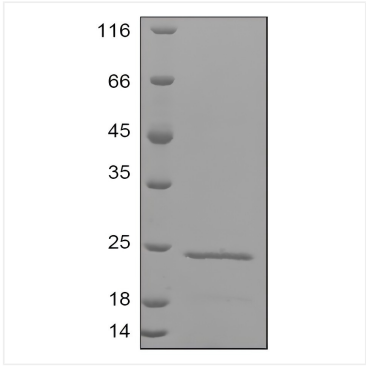
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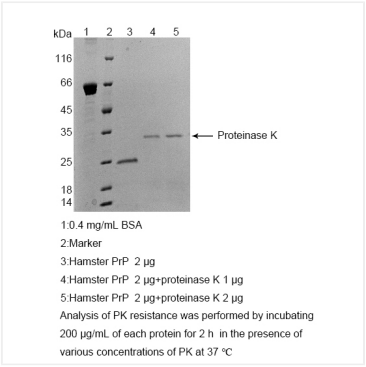
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Validation Data



Recombinant Golden hamster PrP(A117V) Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Analysis of PK resistance was performed by incubating 200 µg/mL of each protein for 2h in the presence of various concentrations of PK at 37°C.