

Recombinant Rat PRNP Protein (29-231 aa), His-tagged

Cat. No. PRNP-742R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat PRNP Protein (29-231 aa) is produced by E. coli expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Full Length of Mature Protein.
Species	Rat
Source	E.coli
ProteinLength	29-231 aa
Description	May play a role in neuronal development and synaptic plasticity. May be required for neuronal myelin sheath maintenance. May play a role in iron uptake and iron homeostasis. Soluble oligomers are toxic to cultured neuroblastoma cells and induce apoptosis (in vitro). Association with GPC1 (via its heparan sulfate chains) targets PRNP to lipid rafts. Also provides Cu ²⁺ or Zn ²⁺ for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	26.3 kDa
AA Sequence	GGWNTGGSRYPGQGSPGGNRYPPQSGGTWGQPHGGGWGQPHGGGWGQPHG GGWGQPHGGGWSQGGGTHNQWNKPSKPKTNLKHVAGAAAAGAVVGGGLGGYML GSAMSRPMLHFGNDWEDRYRENMYRYPNQVYYRPVDQYSNQNNFVHDCVNITIK QHTVTTTTKGENFTETDVKMMERVVEQMCVTQYQKESQAYYDGRRS

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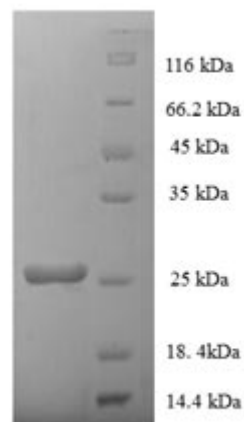
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Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.
GENE INFORMATION	
Gene Name	Prnp prion protein [Rattus norvegicus]
Official Symbol	PRNP
Synonyms	PRNP; prion protein; PrP; Prn;
Gene ID	24686
mRNA Refseq	NM_012631
Protein Refseq	NP_036763
UniProt ID	P13852

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(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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