

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

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                            |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 29-231 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Description</b>      | 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 <sup>2+</sup> or ZN <sup>2+</sup> for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Molecular Mass</b>   | 26.3 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>AA Sequence</b>      | GGWNTGGSRYPGQGSPGGNRYPPQSGGTWGQPHGGGWGQPHGGGWGQPHG<br>GGWGQPHGGGWSQGGGTHNQWNKPSKPKTNLKHVAGAAAAGAVVGGGLGGYML<br>GSAMSRPMLHFGNDWEDRYYRENMYRYPNQVYYRPVDQYSNQNNFVHDCVNITIK<br>QHTVTTTTKGENFTETDVKMMERVVEQMCVTQYQKESQAYYDGRRS                                                                                                                                                                                                                                                                                    |

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|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | 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. |
| <b>Concentration</b> | A hardcopy of COA with concentration instruction is sent along with the products.                                                                                                                                                                                                                                   |

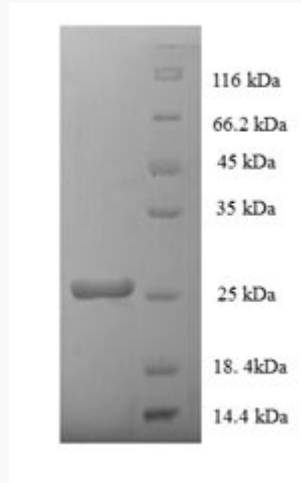
## GENE INFORMATION

|                        |                                                 |
|------------------------|-------------------------------------------------|
| <b>Gene Name</b>       | Prnp prion protein [ <i>Rattus norvegicus</i> ] |
| <b>Official Symbol</b> | PRNP                                            |
| <b>Synonyms</b>        | PRNP; prion protein; PrP; Prn;                  |
| <b>Gene ID</b>         | 24686                                           |
| <b>mRNA Refseq</b>     | NM_012631                                       |
| <b>Protein Refseq</b>  | NP_036763                                       |
| <b>UniProt ID</b>      | P13852                                          |

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

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