

Recombinant Rattus norvegicus Major prion protein

Catalog No: #AP72734

Package Size: #AP72734-1 20ug #AP72734-2 100ug #AP72734-3 1mg

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Description

Product Name	Recombinant Rattus norvegicus Major prion protein
Brief Description	Recombinant Protein
Host Species	Yeast
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:29-231aaSequence Info:Full Length
Other Names	CD230
Accession No.	P13852
Uniprot	P13852
GeneID	24686;
Calculated MW	24.3 kDa
Tag Info	N-terminal 6xHis-tagged
Target Sequence	GGWNTGGSRYPGQGSPGNNRYPPQSGGTWGWQPHGGGWGQPHGGGWGQPHGGGWGQPHGGGWSQG GGTHNQWNKPSKPKTNLKHVAGAAAAGAVVGGGLGGYMLGSAMSRPMLHFGNDWEDRYRENMYRYPNQV YYRPVDQYSNQNNFVHDCVNITIKQHTVTTTTKGENFTETDVKMMERVVEQMCVTQYQKESQAYYDGRRS
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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 Cu²⁺ or ZN²⁺ for the ascorbate-mediated GPC1 deaminase degradation of its heparan sulfate side chains .

References

Analysis of 27 mammalian and 9 avian PrPs reveals high conservation of flexible regions of the prion protein.Wopfner F., Weidenhofer G., Schneider R., von Brunn A., Gilch S., Schwarz T.F., Werner T., Schatzl H.M.J. Mol. Biol. 289:1163-1178(1999)Research Topic:Others

Note: This product is for in vitro research use only