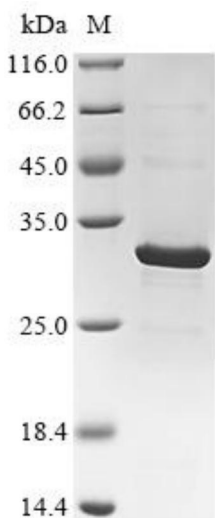


Recombinant *Mesocricetus auratus* Major prion protein(PRNP)

Catalog Number: SIPB651Ha02

Product Name	Recombinant <i>Mesocricetus auratus</i> Major prion protein(PRNP)
Catalog Number	SIPB651Ha02
Expression host	<i>E.coli</i>
Product Info	N-terminal 10xHis-tagged and C-terminal Myc-tagged
Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 1000µl/vial.
Storage	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Relevance	Its primary physiological function is unclear. 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 (in vitro) (By similarity). 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 (By similarity).
AA sequence	KKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGTWGQPHGGGWGQPHGGGW GQPHGGGWGQPHGGGWGQGGGTHNQWNKPSKPKTNMKHMAGAAAAGAVV GGLGGYMLGSAMSRPMMHFGNDWEDRYRENMNRYPNQVYYRPVDQYNNQ NNFVHDCVNITIKQHTVTTTTKGENFTETDIKIMERVVEQMCTTQYQKESQAYY DGRRS

Certificate of Analysis

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Buffer	Lyophilized from 10 mM Tris-HCl, 1 mM EDTA, 6% Trehalose, pH 8.0. The volume before lyophilization is 1000μl/vial.	
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C . Our default final concentration of glycerol is 50%. Customers could use it as reference.	
Batch Number	DA04810b1g0	
Nature	Mesocricetus auratus PRNP-(AA 23-231)- P04273 -Full Length of Mature Protein	
Purification	Affinity purified using IMAC	
Recommended Storage	Short term	2 to 8 °C, one week after reconstitution
	Long term	-20 to -80 °C, twelve months from the date of receipt
Form	Lyophilized powder	
Test Items	Specifications	Results
Purity	≥85%, by SDS-PAGE quantitative densitometry by Coomassie Blue Staining.	
Molecular Weight	Predicted band size: 30.4 kDa	Observed band size: 33 kDa



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Electrophoretic parameters	(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.
Aseptic Processing	Not done
Endotoxin Level	Untreated
Activity	Not tested
Conclusion	pass