

Human PRNP Protein

Cat. No. PRP-HM201

Description

Source	Recombinant Human PRNP Protein is expressed from HEK293 with hFc tag at the C-Terminus. It contains Lys23-Ser230.
Accession	P04156
Molecular Weight	The protein has a predicted MW of 49.4 kDa. Due to glycosylation, the protein migrates to 60-67 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

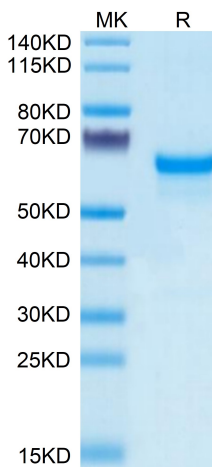
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -20 to -80°C for 3-6 months in unopened state after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Prion protein gene (PRNP) variants determine the susceptibility of humans, sheep and mice to prion diseases, whereas polymorphisms in the open reading frame (ORF) of bovine PRNP seem to be unrelated to the incidence of bovine spongiform encephalopathy (BSE). According to the latest reports, the genetic susceptibility of cattle to BSE is associated with polymorphisms of the regulatory region of the PRNP gene and the level of its expression.

Assay Data

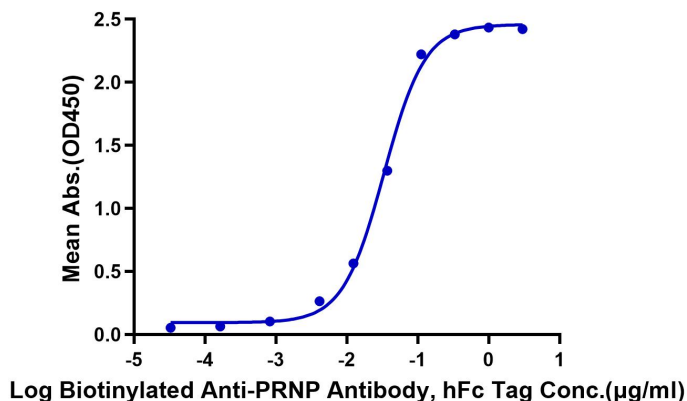
Tris-Bis PAGE



Human PRNP on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

ELISA Data

Human PRNP, hFc Tag ELISA
0.05 μg Human PRNP, hFc Tag Per Well



Immobilized Human PRNP, hFc Tag at 2 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{well}$) on the plate. Dose response curve for Biotinylated Anti-PRNP Antibody, hFc Tag with the EC50 of 33.2ng/ml determined by ELISA.