

## PRNP/Prion Protein Protein, Human, Recombinant (hFc)

### General Information

Synonyms:	PrPc;GSS;p27-30;ASCR;AltPrP;PRIP;PrP33-35C;PrP;CD230;PrP27-30;KURU;CJD;prion protein
Protein Construction:	Lys23-Ser230
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P04156
Molecular Weight:	49.4 kDa (Predicted); 60-67 kDa (Due to glycosylation)

### QC Testing

Biological Activity:	Immobilized Human PRNP, hFc Tag at 2 µg/ml (100 µl/well) on the plate. Dose response curve for Biotinylated Anti-PRNP Antibody, hFc Tag with the EC50 of 33.2 ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

### Preparation and Storage

#### Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein 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.

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