

Product Description

Pioneering GTPase and Oncogene Product Development since 2010

HUMAN PRNP PROTEIN, HFC TAG

Cat.#: 11517

Product Name: Human PRNP Protein

Size: 10 μg, 50 μg and 100 μg

Synonyms: PrP;ASCR;PrP27-30;PrP33-35C;CD230

Target: PRNP

UNIPROT ID: P04156

Description: Recombinant human PRNP protein with C-terminal human Fc

tag

Background: The protein encoded by this gene is a membrane glycosylphosphatidylinositol-anchored glycoprotein that tends to aggregate into rod-like structures. The encoded protein contains a highly unstable region of five tandem octapeptide repeats. This gene is found on chromosome 20, approximately 20 kbp upstream of a gene which encodes a biochemically and structurally similar protein to the one encoded by this gene. Mutations in the repeat region as well as elsewhere in this gene have been associated with Creutzfeldt–Jakob disease, fatal familial insomnia, Gerstmann–Straussler disease, Huntington disease–like 1, and kuru. An overlapping open reading frame has been found for this gene that encodes a smaller, structurally unrelated protein, AltPrp. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Nov 2014]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 48.8 kDa after removal of the signal peptide. The apparent molecular mass of PRNP-hFc is approximately 55-70 kDa due to glycosylation.

Molecular Characterization: PRNP(Lys23-Gly229) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.



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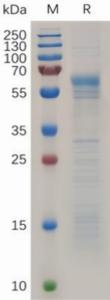


Figure 1. Human PRNP Protein, hFc Tag on SDS-PAGE under reducing condition.