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# Recombinant Human Major Prion Protein/PRP/CD230 Protein

Catalog No. PKSH032729

Note: Centrifuge before opening to ensure complete recovery of vial contents.

### Description

Synonyms Major Prion Protein; PrP; ASCR; PrP27-30; PrP33-35C; CD230; PRNP; PRIP;

**PRP** 

SpeciesHumanExpression HostE.coli

Sequence Gln91-Ser231

AccessionP04156Calculated Molecular Weight16.3 kDaObserved molecular weight15 kDa

### **Properties**

**Purity** > 90 % as determined by reducing SDS-PAGE.

**Storage** Lyophilized protein should be stored at  $< -20^{\circ}$ C, though stable at room temperature

for 3 weeks.Reconstituted protein solution can be stored at 4-7°C for 2-7 days.Aliquots of reconstituted samples are stable at < -20°C for 3 months.

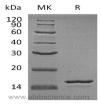
**Shipping** The product is shipped at ambient temperature. Upon receipt, store it immediately at

the temperature listed below.

**Formulation** Lyophilized from a 0.2 μm filtered solution of 5mM PB, 200mM NaCl, pH 7.5.

**Reconstitution** Please refer to the printed manual for detailed information.

#### Data



## **Background**

Major Prion Protein is unique in its ability to reproduce on its own and become infectious. The discovery of prion proteins as infectious agents began in the 1980s with an outbreak of mad cow disease in the United Kingdom. They are found in high quantity in the brain of humans and animals infected with neurodegenerative diseases known as transmissible spongiform encephalopathies or prion diseases. They can occur in two forms called PrP-sen and PrP-res. The normal, monomeric form has a mainly alpha-helical structure. The disease-associated, protease-resistant form forms amyloid fibrils containing a cross-beta spine, formed by a steric zipper of superposed beta-strands. Disease mutations may favor intermolecular contacts via short beta strands, and may thereby trigger oligomerization. Contains an N-terminal

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region composed of octamer repeats. Diseases caused by prions are known as spongiform diseases, because the brain tissue in infected individuals is filled with holes, giving it a sponge-like appearance. Although prions are found throughout the brain, the symptoms of spongiform diseases vary according to the regions. There are currently no effective treatments for spongiform diseases and all are fatal. Prions cannot be destroyed by boiling, alcohol, acid, standard autoclaving methods, or radiation. In fact, infected brains that have been sitting in formaldehyde for decades can still transmit spongiform disease.

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