

# Recombinant human PRNP protein

Catalog Number: ATGP2013

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

23-230aa

### UniProt No.

P04156

### NCBI Accession No.

AAH12844

### Alternative Names

Prion protein preproprotein, Prion protein preproprotein, ASCR, CD230, CJD, GSS, MGC26679, prion, PRIP, PrP, PrP27-30, PrP33-35C, PrPc

## PRODUCT SPECIFICATION

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### Molecular Weight

25 kDa (229aa)

### Concentration

0.25mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.4M urea, 10% glycerol

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE, Denatured

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

Prion protein, also known as PRNP, is a ubiquitous membrane glycoprotein whose abnormal self-replicating, misfolded form is widely believed to cause several central nervous system disorders, collectively known as Transmissible Spongiform Encephalopathies (TSE). This protein contains a highly unstable region of five tandem octapeptide repeat. 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

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kuru. Recombinant human PRNP protein, fused to His-tag at N-terminus, was expressed in E. coli.

## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH M>KKRPKPGGW NTGGSRYPGQ GSPGGNRYPP QGGGGWGQPH GGGWGQPHGG  
GWGQPHGGGW GQPHGGGWGQ GGGTHSQWNK PSKPKTNMKH MAGAAAAGAV VGGLGGYVLG SAMSRPIHF  
GSDYEDRYR ENMHRYPNQV YYRPMDEYSN QNNFVHDCVN ITIKQHTVTT TTKGENFTET DVKMMERVVE QMCITQYERE  
SQAYYQRGS

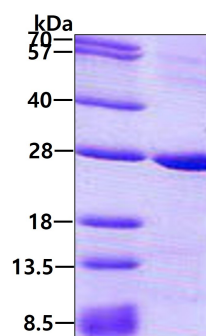
## General References

Weiss S., et al. (1996) Biochem Biophys Res Commun. 219:173-179.

Lee I Y., et al. (1998) Genome Res. 8:1022-1037.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.