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# **Recombinant human PRNP protein**

Catalog Number: ATGP2013

#### PRODUCT INFORMATION

### **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**

#### **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**

# 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**

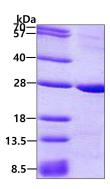
<MGSSHHHHHH SSGLVPRGSH M>KKRPKPGGW NTGGSRYPGQ GSPGGNRYPP QGGGGWGQPH GGGWGQPHGG GWGQPHGGGW GQPHGGGWGQ GGGTHSQWNK PSKPKTNMKH MAGAAAAGAV VGGLGGYVLG SAMSRPIIHF GSDYEDRYYR ENMHRYPNQV YYRPMDEYSN QNNFVHDCVN ITIKQHTVTT TTKGENFTET DVKMMERVVE QMCITQYERE SQAYYQRGS

## **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.

