

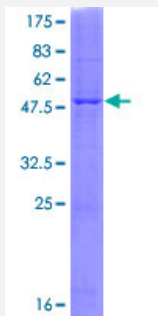
Full-Length

PRNP (Human) Recombinant Protein (P02)

Catalog # H00005621-P02

Size 25 ug, 10 ug

Applications



Specification

Product Description

Human PRNP full-length ORF (ENSP00000368752, 1 a.a. - 253 a.a.) recombinant protein with GST-tag at N-terminal.

Sequence

MANLGCWMLVLFVATWSDLGLCKKRPKPGGWNTGGSRYPGQGSPGGNRYPPQGGGGWGQP
HGGGWGQPHGGGWGQPHGGGWGQPHGGGWGQGGGTHSQWNKPSKPKTNMKHMAGAAAA
GAVVGGLGGYMLGSAMSRPIIHFGSDYEDRYRENMHRYPNQVYYRPMDEYSNQNNFVHDCVNITI
KQHTVTTTTKGENFTETDVKMMERVVEQMCITQYERESQAYYQRGSSMVLFSPPVILLISFLILV
G

Host

Wheat Germ (in vitro)

Theoretical MW (kDa)

54.1

Interspecies Antigen Sequence

Mouse (89); Rat (89)

Preparation Method

[in vitro wheat germ expression system](#)

Purification

Glutathione Sepharose 4 Fast Flow

Quality Control Testing

12.5% SDS-PAGE Stained with Coomassie Blue.

Storage Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.

Storage Instruction

Store at -80°C. Aliquot to avoid repeated freezing and thawing.

Note

Best use within three months from the date of receipt of this protein.

Applications

- Enzyme-linked Immunoabsorbent Assay
- Western Blot (Recombinant protein)
- Antibody Production
- Protein Array

Gene Info — PRNP

Entrez GeneID[5621](#)**GeneBank Accession#**[ENST00000379440](#)**Protein Accession#**[ENSP00000368752](#)**Gene Name**

PRNP

Gene Alias

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

Gene Description

prion protein

Omim ID[123400](#) [137440](#) [176640](#) [600072](#) [603218](#) [606688](#)**Gene Ontology**[Hyperlink](#)**Gene Summary**

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. Alternative splicing results in multiple transcript variants encoding the same protein. [provided by RefSeq]

Other Designations

CD230 antigen|OTTHUMP00000030162|OTTHUMP00000030163|major prion protein|p27-30|prion protein PrP|prion-related protein

Pathway

- [Prion diseases](#)

Disease

- [Alcoholism](#)
- [Alzheimer disease](#)
- [Amyotrophic lateral sclerosis](#)
- [Aphasia](#)
- [Asthma](#)
- [Ataxia](#)
- [Cardiovascular Diseases](#)
- [Cognition](#)
- [Cognition Disorders](#)
- [Colorectal Neoplasms](#)
- [Creutzfeldt-Jakob Syndrome](#)
- [Deafness](#)
- [Dementia](#)
- [Diabetes Complications](#)
- [Disease Progression](#)
- [Down Syndrome](#)
- [Epilepsy](#)
- [Genetic Predisposition to Disease](#)
- [Hepatolenticular Degeneration](#)
- [Hereditary Motor and Sensory Neuropathies](#)

- [Huntington disease](#)
- [Iatrogenic Disease](#)
- [Intelligence Tests](#)
- [Kuru](#)
- [Learning](#)
- [Liver Diseases](#)
- [Memory](#)
- [Metabolic Syndrome X](#)
- [Multiple Sclerosis](#)
- [Multiple System Atrophy](#)
- [Muscle Rigidity](#)
- [Myoclonus](#)
- [Neoplasms](#)
- [Nervous System Diseases](#)
- [Neurodegenerative Diseases](#)
- [Neuropsychological Tests](#)
- [Obesity](#)
- [Osteoporosis](#)
- [Parkinson disease](#)
- [Pattern Recognition](#)
- [Prion Diseases](#)
- [Psychiatric Status Rating Scales](#)
- [Psychometrics](#)
- [Psychomotor Performance](#)
- [Schizophrenia](#)
- [Schizophrenic Psychology](#)

- [Sclerosis](#)
- [Sleep Initiation and Maintenance Disorders](#)
- [Sleep Stages](#)
- [Wakefulness](#)
- [Wechsler Scales](#)
- [Weight Gain](#)
- [Werner syndrome](#)