Recombinant Human PRNP, His-tagged

Cat. No. PRNP-7569H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PRNP protein, fused to His-tag at N-terminus, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	23-230aa
Antigen 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 kuru.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 1M Urea, 10% glycerol
Molecular Mass	25 kDa (229aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MKKRPKPGGW NTGGSRYPGQ GSPGGNRYPP QGGGGWGQPH GGGWGQPHGG GWGQPHGGGW GQPHGGGWGQ GGGTHSQWNK PSKPKTNMKH MAGAAAAGAV VGGLGGYVLG SAMSRPIIHF GSDYEDRYYR ENMHRYPNQV YYRPMDEYSN QNNFVHDCVN ITIKQHTVTT

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	TTKGENFTET DVKMMERVVE QMCITQYERE SQAYYQRGS
Purity	>90% as determined by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/ml

GENE INFORMATION

Gene Name	PRNP prion protein [Homo sapiens]
Official Symbol	PRNP
Synonyms	PRNP; prion protein; CJD, GSS, prion protein (p27 30) , PRIP; major prion protein; CD230; Creutzfeldt Jakob disease; fatal familial insomnia; Gerstmann Strausler Scheinker syndrome; p27 30; PRP; CD230 antigen; prion-related protein; CJD; GSS; PrP; ASCR; PRIP; PrPc; p27-30; PrP27-30; PrP33-35C; MGC26679;
Gene ID	5621
mRNA Refseq	NM_000311
Protein Refseq	NP_000302
MIM	176640
UniProt ID	P04156

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Chromosome Location	20p13
Pathway	Axon guidance, organism-specific biosystem; Developmental Biology, organism-specific biosystem; Glypican 1 network, organism-specific biosystem; NCAM signaling for neurite out-growth, organism-specific biosystem; NCAM1 interactions, organism-specific biosystem; Prion diseases, organism-specific biosystem; Prion diseases, conserved biosystem;
Function	ATP-dependent protein binding; chaperone binding; copper ion binding; copper ion binding; identical protein binding; metal ion binding; microtubule binding; protein binding; tubulin binding;

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