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PRNP Human

Catalog #:PRPS-1407

For research use only.

Description:PRNP Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 229 amino acids (23-230a.a) and having a molecular mass of 25kDa. GOSR2 is fused to a 21 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Synonyms:ASCR, CD230, CJD, GSS, MGC26679, prion, PRIP, PrP, PrP27-30, PrP33-35C, PrPc, Major prion protein, PRNP.

Source:E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MKKRPKPGGW NTGGSRYPGQ GSPGGNRYPP QGGGGWGQPH GGGWGQPHGG GWGQPHGGGW GQPHGGGWGQ GGGTHSQWNK PSKPKTNMKH MAGAAAAGAV VGGLGGYVLG SAMSRPIIHF GSDYEDRYYR ENMHRYPNQV YYRPMDEYSN QNNFVHDCVN ITIKQHTVTT TTKGENFTET DVKMMERVVE QMCITQYERE SQAYYQRGS.

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:
PRNP protein solution (0.25mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 1M Urea and 10% glycerol.

Stability:
Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Avoid multiple freeze-thaw cycles.

Usage:
NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drµgs, agricultural or pesticidal products, food additives or household chemicals.

Introduction:
Prion protein (PRNP) is a ubiquitous membrane glycoprotein whose abnormal self-replicating, misfolded form is widely believed to cause several central nervous system disorders, together known as Transmissible Spongiform Encephalopathies (TSE). PRNP contains a highly unstable region of five tandem octapeptide repeat. Mutations in PRNP proteins repeat region as well as elsewhere have been associated with Creutzfeldt-Jakob disease, fatal familial insomnia, Gerstmann-Straussler disease, Huntington disease-like 1, and kuru.

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