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PRPS1 Human

Description:PRPS1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 338 amino acids (1-318 a.a.) and having a molecular weight of 36.9kDa.The PRPS1 is fused to 20 a.a His-Tag at N-terminus and purified by proprietary chromatographic techniques.

Catalog #:PKPS-368

For research use only.

Synonyms:ARTS, CMTX5, PPRibP, PRSI, DFN2, Ribose-phosphate pyrophosphokinase 1, DFNX1, Phosphoribosyl pyrophosphate synthase I, PRS-I, PRPS1, KIAA0967.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MPNIKIFSGS SHQDLSQKIA DRLGLELGKV VTKKFSNQET CVEIGESVRG EDVYIVQSGC GEINDNLMEL LIMINACKIA SASRVTAVIP CFPYARQDKK DKSRAPISAK LVANMLSVAG ADHIITMDLH ASQIQGFFDI PVDNLYAEPA VLKWIRENIS EWRNCTIVSP DAGGAKRVTS IADRLNVDFA LIHKERKKAN EVDRMVLVGD VK

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:
The PRPS1 protein solution contains 20mM Tris-HCl, pH-8, 100mM NaCl, 1mM DTT and 20% 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:
PRPS1 catalyzes the synthesis of phosphoribosylpyrophosphate (PRPP) that is essential for nucleotide synthesis. PRPS1 catalyzes the phosphoribosylation of ribose 5-phosphate to 5-phosphoribosyl-1-pyrophosphate, which is essential for purine metabolism and nucleotide biosynthesis. Defects in PRPS1 result in phosphoribosylpyrophosphate synthetase superactivity, Charcot-Marie-Tooth disease X-linked recessive type 5 and Arts Syndrome.

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