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PSPH Human

Catalog #:PKPS-231

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Description: Phosphoserine Phosphatase Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 225 amino acids and having a molecular mass of 25 kDa. PSP was overexpressed in E. coli and purified by conventional chromatography.

Synonyms: Phosphoserine phosphatase, EC 3.1.3.3, PSP, O-phosphoserine phosphohydrolase, PSPase, L-3-phosphoserine phosphatase, PSPH.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence:MVSHSELRKL FYSADAVCFD VDSTVIREEG IDELAKICGV EDAVSEMTRR AMGGAVPFKA ALTERLALIQ PSREQVQRLI AEQPPHLTPG IRELVSRLQE RNVQVFLISG GFRSIVEHVA SKLNIPATNV FANRLKFYFN GEYAGFDETQ PTAESGGKGK VIKLLKEKFH FKKIIMIGDG ATDMEACPPA DAFIGFGGNV IRQQVKDNAK WYITDFVELL GELEE.

Purity: Greater than 95.0% as determined by(a)Analysis by RP-HPLC.(b)Analysis by SDS-PAGE.

Formulation:
The protein contains 20mM Hepes pH 7.5, 1mM DTT &100mM KCl2.

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:
Human Phosphoserine phosphatase (hPSP) is an important enzyme in the phosphorylated pathway of serine biosynthesis, which contributes a major portion of the endogenous L-serine. Similar to known L-3-phosphoserine phosphatases, it catalyzed the Mg2+-dependent hydrolysis of L-phosphoserine and an exchange reaction between L-serine and L-phosphoserine. Recently, its complex structures reveal that the open-closed environmental change of the active site, generated -helical bundle domain, is important to substrate by local rearrangement of the recognition and hydrolysis.

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