



Product Data Sheet

□ Cat # RP-356 Recombinant (E.Coli) Human Protein Phosphatase 4 Catalytic subunit **Size:** 20 ug

Protein phosphatase is involved in many processes such as microtubule organization at centrosomes, maturation of spliceosomal snRNPs, apoptosis, DNA repair, tumor necrosis factor (TNF)-alpha signaling, activation of c-Jun N-terminal kinase MAPK8, regulation of histone acetylation, DNA damage checkpoint signaling, NF-kappa-B activation and cell migration. Protein Phosphatase 4 Catalytic subunit (PPP4C), is a part of the Serine/threonine-protein phosphatase catalytic subunits which takes part in dephosphorylation and regulation of HDAC3. The protein phosphatase (PP) holoenzyme is a trimeric complex compound of a regulatory subunit, a variable subunit and a catalytic subunit. 4 major families of protein phosphatase catalytic subunits have been identified, designated PP1, PP2A, PP2B (calcineurin) and PP2C.

Source: PPP4C Human Recombinant produced in E. coli (>90%) is a single polypeptide chain containing 330 amino acids (1-307) and having a molecular mass of 37.5 kDa. PPP4C is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Formulation and Appearance: The PPP4C solution (1mg/1ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol. Sterile Filtered colorless solution.

Applications: Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: PPP4C should be stored at 4°C if entire vial will be used within 2-4 weeks and for longer periods of time store at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please prevent freeze-thaw cycles.**

Usage: This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

RP-356 180921AC