
Product Data Sheet

Product Name: PSTPIP1 Human

Cat. No.: GP24266

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Proline-serine-threonine phosphatase interacting protein 1; CD2BP1; CD2BP1L; CD2BP1S; H-PIP; PAPAS; PSTPIP; PSTPIP1; Proline-serine-threonine phosphatase-interacting protein 1; PEST phosphatase-interacting protein 1; CD2-binding protein 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMPQLQF KDAFWCRDFT AHTGYEVLLQ RLLDGRKMCK DMEELLRQRA QAEERYGKEL VQIARKAGGQ TEINSLRASFD DSLKQQMENV GSHIQLALT LREELRSLEE FRERQKEQRK KYEAVMDRVQ KSKLSLYKKA MESKKTYEQK CRDADDAEQA FERISANGHQ KQVEKSQNKA RQCKDSATEA ERVYRQSIAQ LEKVRAWEQ EHRTTCEAFQ LQEFDRILTIL RNALWVHSNQ LSMQCVKDDE LYEEVRLTLE GCSIDADIDS FIQAKSTGTE PPAPVPYQNY YDREVTPLTS SPGIQPSCGM IKRFSGLLHG SPKTTSLAAS AASTETLTPT PERNEGVYTA IAVQEIQGNP ASPAQEYRAL YDYTAQNPDE LDLSAGDILE VILEGEDGWW TVERNGQGRGF VPGSYLEKL.		
Formulation	The PSTPIP1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 20% glycerol and 1mM DTT.		

Introduction

Proline-Serine-Threonine Phosphatase Interacting Protein 1 (PSTPIP1) which is a scaffold protein and a regulator of the actin cytoskeleton binds ABL1, PTPN18, WAS, CD2AP, and PTPN12. PSTPIP1 also binds to the cytoplasmic tail of CD2, an effector of T cell activation and adhesion, negatively affecting CD2-triggered T cell activation. Mutations in PSTPIP1 are a cause of PAPA syndrome.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

PSTPIP1 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 439 amino acids (1-416) and having a molecular mass of 50 kDa. PSTPIP1 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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