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SA6015X Human PTPN6 (243-541) - Purified

Alternate names: HCP, Hematopoietic cell protein-tyrosine phosphatase, PTP-1C, PTP1C, PTPN-6, Protein-tyrosine phosphatase 1C, Protein-tyrosine phosphatase SHP-1, SH-PTP1, Tyrosine-protein phosphatase non-receptor type 6

Quantity: 0.5 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Uniprot ID: P29350

NCBI: NP_002822.2

GeneID: 5777

Species: Human

Source: E. coli

Format:
State: Liquid purified protein
Purity: >95% by SDS-PAGE
Buffer System: 25 mM Tris-HCl, pH7.5, 2 mM β-mercaptoethanol, 1 mM EDTA.1mMDTT, 20%Glycerol

Description: The protein coding region of the catalytic domain of SHP-1 (amino acids 243-541) was cloned into an E. coli expression vector. The catalytic domain of SHP-1 was overexpressed as insoluble protein aggregates (inclusion bodies). The recombinant SHP-1 protein was purified by FPLC gel-filtration chromatography, after refolding of the isolated inclusion bodies in a redox buffer. Additional amino acid(Met) is attached at N-terminus.

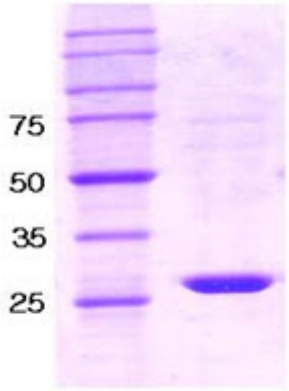
AA Sequence:
MGFWEEFESL QKQEVKNLHQ RLEGQRPENK GKNRYKNILP FDHSRVILQG RDSNIPGSDY
INANYIKNQL LGPDENAKTY IASQGCLEAT VNDFWQMAWQ ENSRVIVMTT REVEKGRNKC
VPYWPEVGMQ RAYGPYSVTN CGEHDTTEYK LRTLQVSPLD NGDLIREIWH YQYLSWPDHG
VPSEPGGVLS FLDQINQRQE SLPHAGPIIV HCSAGIGRTG TIIVIDMLME NISTKGLDCD
IDIQKTIQMV RAQRSGMVQT EAQYKFIYVA IAQFIETTKK KLEVLQSQKG QESEYGNITY

Specific Activity: 5 kU/mg - One unit will hydrolyze 1 nanomole of p-nitrophenylphosphatate per minute at pH 7.5 at 37°C using 10mM of substrate
Molecular weight: 34.381 kDa (300 aa), confirmed by MALDI-TOF

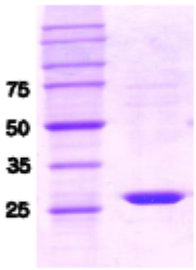
Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings:
1. Shen, S. H., et al. (1991) Nature 352, 736-739.
2. Wu C., et al. (2003) Gene. 306,1-12.

Pictures:



15% SDS-PAGE (3ug)



10%SDS-PAGE