

Recombinant human SHP-1 protein

Catalog Number: SHP2001

PRODUCT INFORMATION

Expression system

E.coli

Domain

243-541aa

UniProt No.

P29350

NCBI Accession No.

NP_002822

Alternative Names

Protein tyrosine phosphatase non-receptor type 6 isoform 1, PTPN6, HCP, PTP1C, Tyrosine-protein phosphatase non-receptor type 6, EC 3.1.3.48, Protein-tyrosine phosphatase 1C, PTP-1C, Hematopoietic cell protein-tyrosine phosphatase, SH-PTP1, Protein-tyrosine phosphatase SHP-1, PTPN6, HCP, HCPH, SHP1, HPTP1C, SHP-1L EC 3.1.3.48, Protein tyrosine phosphatase non-receptor type 6 isoform 1, 70 kDa SHP1L protein, Hematopoietic cell phosphatase, Hematopoietic cell protein tyrosine phosphatase, HPTP 1C, Protein tyrosine phosphatase 1C, Protein tyrosine phosphatase SHP 1, Protein tyrosine phosphatase SHP1, PTP 1C, PTPN 6, SH PTP 1, SH PTP1, SHP 1, SHP 1L, SHP1L, SHPTP 1, SHPTP1, Tyrosine protein phosphatase non receptor type 6

PRODUCT SPECIFICATION

Molecular Weight

34.3 kDa (300aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. 25mM Tris-HCl buffer (pH 7.5) containing 2mM beta-mercaptoethanol, 1mM EDTA 1mM DTT, 20%glycerol

Purity

> 95% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Specific activity is > 8,000unit/mg, and is defined as the amount of enzyme that hydrolyze 1.0nmole of p-nitrophenyl phosphate (pNPP) per minute at pH 7.5 at 37C

Tag

Non-Tagged

Application

SDS-PAGE, Enzyme Activity

Recombinant human SHP-1 protein

Catalog Number: SHP2001

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

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.

Amino acid Sequence

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

General References

Shen SH., et al. (1991) Nature 352, 736-739.
Wu C., et al. (2003) Gene. 306,1-12.

DATA

SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

