SHP-1 Protein, Human (His)

Cat. No.:	HY-P71141
Synonyms:	Tyrosine-Protein Phosphatase Non-Receptor Type 6; Hematopoietic Cell Protein-Tyrosine Phosphatase; Protein-Tyrosine Phosphatase 1C; PTP-1C; Protein-Tyrosine Phosphatase SHP-1; SH-PTP1; PTPN6; HCP; PTP1C
Species:	Human
Source:	E. coli
Accession:	AAH02523.1 (K243-I541)
Gene ID:	5777
Molecular Weight:	Approximately 33.0 kDa

PROPERTIES

AA Sequence	K A G F W E E F E S L Q K Q E V K N L H Q R L E G Q R P E N K G K N R Y K N I L P F D H S R V I L Q G R D S N I P G S D Y I N A N Y I K N Q L L G P D E N A K T Y I A S Q G C L E A T V N D F W Q M A W Q E N S R V I V M T T R E V E K G R N K C V P Y W P E V G M Q R A Y G P Y S V T N C G E H D T T E Y K L R T L Q V S P L D N G D L I R E I W H Y Q Y L S W P D H G V P S E P G G V L S F L D Q I N Q R Q E S L P H A G P I I V H C S A G I G R T G T I I V I D M L M E N I S T K G L D C D I D I Q K T I Q M V R A Q R S G M V Q T E A Q Y K F I Y V A I A Q F I E T T K K K L E V L Q S Q K G Q E S E Y G N I
Appearance	Solution.
Formulation	Supplied as a 0.2 μm filtered solution of 25 mM Tris-HCl, 500 mM NaCl, 2 mM 2-Mercaptoethanol, 1 mM EDTA, 1 mM DTT, 20% Glycerol, pH 7.5.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	N/A
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

DESCRIPTION

Background	SHP-1 protein acts as a critical modulator of signaling pathways initiated by tyrosine phosphorylated cell surface receptors, including KIT and the EGF receptor/EGFR. Additionally, it enhances the inhibition of mast cell activation mediated by the Lilrb4a receptor. The SH2 regions of SHP-1 may engage with other cellular components, influencing its phosphatase activity against interacting substrates. Notably, in collaboration with MTUS1, SHP-1 induces UBE2V2 expression in response to

angiotensin II stimulation. Beyond these regulatory functions, SHP-1 plays a key role in hematopoiesis, further emphasizing its significance in the intricate network of cellular processes and signaling events.

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