SHP-1 Protein, Mouse (sf9, His-GST)

Cat. No.:	HY-P73649
Synonyms:	Tyrosine-protein phosphatase non-receptor type 6; 70Z-SHP; PTP-1C; SHP-1; Ptpn6
Species:	Mouse
Source:	Sf9 insect cells
Accession:	P29351-2 (A207-K597)
Gene ID:	15170
Molecular Weight:	Approximately 63 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.0, 10% Glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

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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