

PTP alpha/PTPRA Protein, Human (sf9, His-GST)

Cat. No.:	HY-P76555
Synonyms:	Receptor-type tyrosine-protein phosphatase alpha; R-PTP-alpha; PTPA; PTPRL2
Species:	Human
Source:	Sf9 insect cells
Accession:	P18433-2 (A174-K793)
Gene ID:	5786
Molecular Weight:	Approximately 90 kDa

PROPERTIES

Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Solution.
Formulation	Supplied as a 0.2 µm filtered solution of 20 mM Tris, 500 mM NaCl, pH 7.4, 20% gly, 3 mM DTT.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	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	PTP alpha/PTPRA, a tyrosine protein phosphatase, plays a pivotal role in integrin-mediated focal adhesion formation. Upon integrin engagement, it selectively recruits BCAR3, BCAR1, and CRK to focal adhesions, fostering SRC-mediated phosphorylation of BRAC1. This phosphorylation event activates downstream signaling cascades involving PAK, as well as small GTPases RAC1 and CDC42. Through its participation in these intricate molecular processes, PTP alpha/PTPRA contributes to the dynamic regulation of focal adhesions, influencing cellular responses to integrin signaling.
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Caution: Product has not been fully validated for medical applications. For research use only.

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