

PTP4A1 Protein, Human (His)

Cat. No.:	HY-P701032
Synonyms:	PTP4A1; PTP(CAAXI); PRL-1; PRL1; PTPCAAX1;
Species:	Human
Source:	E. coli
Accession:	Q93096 (M1-C170)
Gene ID:	7803
Molecular Weight:	20.56 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 0.22µm filtered solution of 20mM Tris, 250mM NaCl, 1mM DTT, 20% Glycerol, pH 7.4.
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

PTP4A1 protein, a dynamic protein tyrosine phosphatase, emerges as a key regulator that stimulates the progression from G1 into S phase during mitosis. Beyond its mitotic role, PTP4A1 is implicated in the development and maintenance of differentiating epithelial tissues, underscoring its versatile contributions to cellular differentiation. Notably, PTP4A1 exhibits a profound impact on cellular behavior, enhancing cell proliferation, motility, and invasive activity. In the context of cancer, PTP4A1 takes on a pivotal role, promoting metastasis. Its multifaceted functions highlight the crucial involvement of PTP4A1 in orchestrating diverse cellular processes, with implications for both normal tissue development and pathological conditions associated with cancer progression and metastasis.

Caution: Product has not been fully validated for medical applications. For research use only.

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