

PTP4A2 Protein, Human (GST)

Cat. No.:	HY-P77169
Synonyms:	Protein tyrosine phosphatase type IVA 2; HU-PP-1; PRL-2; PTPCAAX2
Species:	Human
Source:	E. coli
Accession:	Q12974 (N2-Q167)
Gene ID:	8073
Molecular Weight:	Approximately 45.9 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris, 0.15M NaCl, 1 mM GSH, pH 7.3. 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.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	PTP4A2 protein, a potent protein tyrosine phosphatase, plays a pivotal role in stimulating the progression from G1 into S phase during mitosis, contributing to cell cycle regulation. Intriguingly, PTP4A2 emerges as a promoter of tumorigenesis, showcasing its involvement in pathological processes associated with cancer development. Additionally, PTP4A2 exhibits inhibitory effects on geranylgeranyl transferase type II activity by disrupting the association between RABGGTA and RABGGTB, indicating its regulatory influence on intracellular signaling pathways. The multifaceted functions of PTP4A2 underscore its significance in cellular processes related to both cell cycle dynamics and the intricate mechanisms underlying tumor progression.
------------	--

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA