

---

## Product Data Sheet

---

Product Name: PTP4A3 Human  
 Cat. No.: GP22201  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Protein tyrosine phosphatase type IVA 3; Protein-tyrosine phosphatase 4a3; Protein-tyrosine phosphatase of regenerating liver 3; PRL-3; PRL-R; PTP4A3; PRL3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MARMNRPAPV EVSYKHMRFI ITHNPTNATL STFIEDLKKY GATTVVRVCE VTYDKTPLEK DGITVVDWPF DDGAPPPGKV VEDWLSLVKA KFCEAPGSCV AVHCVAGLGR APVLVALALI ESGMKYEDAI QFIRQRRGA INSKQLTYLE KYRPKQRLRFKDPHTHKTRC CVM.		
Formulation	The PTP4A3 solution contains 20mM Tris-HCl buffer (pH8.0), 2mM EDTA, 1mM DTT and 10% glycerol.		

### Introduction

Protein Tyrosine Phosphatase Type IVA Member 3 (PTP4A3) is a member of a small class of prenylated protein tyrosine phosphatases (PTPs) which remove phosphate modifications from tyrosine residues on proteins. PTP4A3 enhances cell proliferation, cell motility and invasive activity. PTP4A3 functions as a protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. PTP4A3 is mostly expressed in cardiomyocytes and skeletal muscle; it is also found in the pancreas. PTP4A3 is always overexpressed in colon cancer metastasis. PTP4A3 is notably overexpressed in liver metastasis of colorectal cancer. High levels of PTP4A3 expression are linked to tumorigenesis and metastasis; therefore it is overexpressed in metastatic colorectal, ovarian, liver and skin cancers. PTP4A3 may be involved in the progression of cardiac hypertrophy by inhibiting intracellular calcium mobilization in response to angiotensin II. PTP4A3 is inhibited by sodium orthovanadate and peroxovanadium compounds.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

## Product Data Sheet

---

periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

PTP4A3 Human Recombinant fused with a 20 amino acids His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 193 amino acids (1-173 a.a.) and having a molecular mass of 21.6kDa. The PTP4A3 is purified by proprietary chromatographic techniques.

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

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**