
Product Data Sheet

Product Name: PTP4A1 Human
 Cat. No.: GP22199
 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 1; PTP(CAAXI); Protein-tyrosine phosphatase 4a1; Protein-tyrosine phosphatase of regenerating liver 1; PRL-1; PTP4A1; PRL1; PTPCAAX1; HH72; DKFZp779M0721.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MARMNRPAPV EVTYKNMRFL ITHNPTNATL NKFIEELKKY GVTTIVRVCE ATYDTTLVEK EGIHVLDWPF DDGAPPSNQI VDDWLSLVKI KFREEPGCCI AVHCVAGLGR APVLVALALI EGGMKYEDAV QFIRQKRRGA FNSKQLLYLE KYRPMRLRF KDSNGHRNNC.		
Formulation	The PTP4A1 solution (1 mg/ml) contains 20mM Tris-HCl buffer (pH8.0), 20% glycerol, 0.1M NaCl and 1mM DTT.		

Introduction

Protein tyrosine phosphatase type IVA 1 (PTP4A1) is a cell signaling molecule that has regulatory roles in a variety of cellular processes. PTP4A1 is a unique nuclear PTP which is induced in regenerating liver and mitogen stimulated cells. PTP4A1 is primarily expressed in the spleen, bone marrow, thymus, lymph nodes, T lymphocytes and tonsil and is overexpressed in tumor cell lines.

Stability

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

PTP4A1 Human Recombinant fused with a 20 amino acid His tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 190 amino acids (1-

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

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170 a.a.) and having a molecular mass of 21.6kDa. The PTP4A1 is purified by proprietary chromatographic techniques.

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