

Product datasheet

Recombinant Human PTP4A3 / PRL-R protein ab42570

Overview

Product name	Recombinant Human PTP4A3 / PRL-R protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Human
Molecular weight	20 kDa including tags
Amino acids	2 to 173
Tags	His tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab42570** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity	0.9 U/ug. One unit will hydrolyze 1 pmol 6, 8-difluoro-4-methyl umbelliferyl phosphate (DiFMUP) per minute at pH 6.3 and 30°C. Assay buffer: 50 mM Bis-Tris, pH 6.3, 2 mM EDTA, 2 mM DTT, 100 mM DiFMUP.
Applications	Inhibition Assay
Purity	> 95 % SDS-PAGE.
Form	Liquid
Additional notes	0.9 U/ug. One unit will hydrolyze 1 pmol 6, 8-difluoro-4-methyl umbelliferyl phosphate (DiFMUP) per minute at pH 6.3 and 30°C. Assay buffer: 50 mM Bis-Tris, pH 6.3, 2 mM EDTA, 2 mM DTT, 100 mM DiFMUP. Previously labelled as PTP4A3.

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle.
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pH: 8.00

Constituents: 0.307% Glutathione, 0.0154% DTT, 0.395% Tris HCl, Tween, 0.0584% EDTA, 50% Glycerol, 0.435% Sodium chloride

General Info

Function	Protein tyrosine phosphatase which stimulates progression from G1 into S phase during mitosis. Enhances cell proliferation, cell motility and invasive activity, and promotes cancer metastasis. May be involved in the progression of cardiac hypertrophy by inhibiting intracellular calcium mobilization in response to angiotensin II.
Tissue specificity	Mainly expressed in cardiomyocytes and skeletal muscle; also found in pancreas. Consistently overexpressed in colon cancer metastasis.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Contains 1 tyrosine-protein phosphatase domain.
Post-translational modifications	Farnesylated. Farnesylation is required for membrane targeting.
Cellular localization	Cell membrane. Early endosome.

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