

Product datasheet

Recombinant Human PTP4A3 protein ab42570

Overview

Product name	Recombinant Human PTP4A3 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.
-------------------------	--

Preparation and Storage

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

Preservative: None

Constituents: 50% Glycerol, Tween 20, 75mM Sodium chloride, 25mM Tris HCl, 2mM EDTA, 10mM Glutathione, 1mM DTT, pH 8

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.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <http://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors