

Product datasheet

Recombinant mouse PTP1B protein ab42574

Overview

Product name	Recombinant mouse PTP1B protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	Escherichia coli
Amino Acid Sequence	
Species	Mouse
Amino acids	1 to 321
Tags	GST tag N-Terminus

Specifications

Our [Abpromise guarantee](#) covers the use of **ab42574** in the following tested applications.

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

Biological activity	The specific activity of mouse PTP1B was determined using pNPP. Enzyme reaction condition: 20 mM pNPP, 5 min incubation at 30C, 2 ug/ml enzyme.
Applications	Inhibition Assay
Purity	> 95 % SDS-PAGE.
Form	Liquid

Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Upon delivery aliquot. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Constituents: 0.307% Glutathione, 0.0154% DTT, 0.395% Tris HCl, 0.05% Tween, 50% Glycerol, 0.435% Sodium chloride This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Function	May play an important role in CKII- and p60c-src-induced signal transduction cascades.
Sequence similarities	Belongs to the protein-tyrosine phosphatase family. Non-receptor class 1 subfamily. Contains 1 tyrosine-protein phosphatase domain.
Post-translational modifications	Oxidized on Cys-215; the Cys-SOH formed in response to redox signaling reacts with the alpha-amido of the following residue to form a 4-amino-3-isothiazolidinone serine cross-link, triggering a conformational change that inhibits substrate binding and activity. The active site can be restored by reduction.
Cellular localization	Endoplasmic reticulum membrane.

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