

## PTP1B Colorimetric Assay Kit

### Product Information

#### Cat.No.

Kit-0749

#### Product Overview

A colorimetric assay kit to measure PTP1B activity. This convenient 96-well assay is useful for screening inhibitors and modulators of PTP1B activity.

#### Size

1 kit/96 Tests

#### Usage

The Calbiochem PTP1B Assay Kit, Colorimetric is a nonradioactive assay designed for measuring PTP1B activity in purified preparations and for inhibitor or activator screening.

#### Storage

Storage: < -70°C, Avoid freeze/thaw. Storage Conditions: Upon arrival store the 1/2 Volume Plate at room temperature and the remaining components at -70°C to maintain the highest stability. The PTP1B must be handled very carefully in order to retain maximal enzymatic activity. Thaw it quickly in a RT water bath or by rubbing between fingers, then immediately store on an ice bath. The remaining unused enzyme should be quickly refrozen by placing at -70°C. To minimize the number of freeze/thaw cycles, aliquot the PTP1B into separate tubes and store at -70°C.

#### Kit Components

PTP1B Enzyme: 1 vial, 5 µg, 100 ng/µl in 50 mM HEPES, 1 mM EDTA, 1 mM DTT, 10% (v/v) glycerol, 0.05% NP-40, pH 7.2 in a screw cap microcentrifuge tube  
PTP1B Substrate (IR5): 1 vial, 1 mg, supplied as a lyophilized solid in a screw cap vial, composed of amino acids 1142-1153, pY<sup>1142</sup>, M.W. 1703 kDa  
2X Assay Buffer: 1 bottle, 20 ml, supplied as 2X buffer (300 mM NaCl, 100 mM MES, 2 mM DTT, 2 mM EDTA, 0.1% NP-40, pH 7.2) in a screw-cap plastic bottle  
Red Reagent: 1 bottle, 5 ml, supplied as concentrated phosphate detection reagent in a screw-cap plastic bottle  
Phosphate Standard: 1 vial, 500 µl, supplied as a 100 µM solution in 1X Assay Buffer in a screw cap microcentrifuge tube  
Suramin Inhibitor: 1 vial, 10 mg  
1/2 Volume Plate: 1 plate

## PTP1B Colorimetric Assay Kit

**Detection method** Colorimetric

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**Compatible Sample Types**

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Purified enzyme

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