

## PTP alpha/PTPRA Protein, Human, Recombinant (His)

### General Information

Protein Construction: Ala183-Lys802  
Species: Human  
Expression Host: Baculovirus-Insect Cells  
Accession: P18433-5  
Molecular Weight: 73.00 kDa (Predicted); 68-75 kDa (Reducing condition)

### QC Testing

Biological Activity: Activity has not been tested. It is theoretically active, but we cannot guarantee it.  
Purity: > 90% as determined by Bis-Tris PAGE  
Endotoxin: < 1 EU/ $\mu$ g of the protein as determined by the LAL method.  
Formulation: Supplied as 0.22  $\mu$ m filtered solution in 20 mM Tris, 500 mM NaCl, 20% glycerol, 3 mM DTT (pH 7.4).

### Preparation and Storage

#### Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

#### Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

### Protein Background

The receptor protein-tyrosine phosphatase  $\alpha$  (encoded by PTPRA), a 130-kDa transmembrane PTP, has shown to be a physiological regulator for PTK c-Src and the kinases involved in integrin signaling pathway including FAK and P130cas. The activation of PTPRA on Src Y530 dephosphorylation led to cellular transformation, which suggested that PTPRA might be an oncogenic gene.

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