

## PTPRB Protein, Human, Recombinant (His)

## General Information

Synonyms:	R-PTP-beta;Vascular endothelial protein tyrosine phosphatase (VE-PTP);Protein-tyrosine phosphatase beta;PTPB;PTPRB;Receptor-type tyrosine-protein phosphatase beta
Protein Construction:	1643-1997 aa
Species:	Human
Expression Host:	P. pastoris (Yeast)
Accession:	P23467
Molecular Weight:	43.4 kDa (predicted)
AA Sequence:	RQKVSHGRERPSARLSIRDRPLSVHLNLGQKGNRKTSCPIKINQFEGHFMKLQADSNYLLSKEYEELKDVGR NQSCDIALLPENRGKNRYNNILPYDATRVKLSNVDDDDPCSDYINASYIPGNNFRREYIVTQGPLPGTKDDFWK MVWEQNVHNIVMVTQCVEKGRVKCDHYWPADQDSLYYGDLILQMLSESVLPEWTIREFKICGEEQLDAHRLI RHFHYTVWPDHGVPETTQSLIQFVRTVRDYINRSPGAGPTVVHCSAGVGRGTGFIALDRILQQLDSKDSVDIYG AVHDLRLHRVHMVQTECQYVYLHQVDRDVLARKLRSEQENPLFPIYENVNPEYHRDPVYSRH

## QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

## Preparation and Storage

## Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

## Stability &amp; Storage:

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

Plays an important role in blood vessel remodeling and angiogenesis. Not necessary for the initial formation of blood vessels, but is essential for their maintenance and remodeling. Can induce dephosphorylation of TEK/TIE2,

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CDH5/VE-cadherin and KDR/VEGFR-2. Regulates angiopoietin-TIE2 signaling in endothelial cells. Acts as a negative regulator of TIE2, and controls TIE2 driven endothelial cell proliferation, which in turn affects blood vessel remodeling during embryonic development and determines blood vessel size during perinatal growth. Essential for the maintenance of endothelial cell contact integrity and for the adhesive function of VE-cadherin in endothelial cells and this requires the presence of plakoglobin.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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