

## General Information

### Gene Name Synonym

PTP-PEST; Protein-tyrosine phosphatase G1

### Protein Construction

A DNA sequence encoding the human PTPN12 (AAA36529.1) (Met1-Gln355) was expressed and purified with two additional amino acids (Gly & Pro) at the N-terminus.

### Organism

Human

### Expression Host

Baculovirus-Insect Cells

## QC Testing

### Activity

Measured by its ability to dephosphorylate a tyrosine residue in a peptide containing the EGFR Y992 phosphorylation site (Catalog # ES006). The specific activity is >20  $\mu\text{mol}/\text{min}/\text{mg}$ .

### Purity

> 85 % as determined by SDS-PAGE

### Endotoxin

< 1.0 EU per  $\mu\text{g}$  of the protein as determined by the LAL method

### Stability

Samples are stable for up to twelve months from date of receipt at  $-70^{\circ}\text{C}$

### Predicted N terminal

Gly

### Molecular Mass

The secreted recombinant human PTPN12 consists of 357 amino acids and predicts a molecular mass of 41.8 KDa. The apparent molecular mass of the protein is approximately 41 KDa in SDS-PAGE under reducing conditions due to glycosylation.

### Formulation

Lyophilized from sterile 20mM Tris, 500mM NaCl, 10% glycerol, pH 8.0.

1. 5 % trehalose and mannitol are added as protectants before lyophilization.
2. Please contact us for any concerns or special requirements.

## Usage Guide

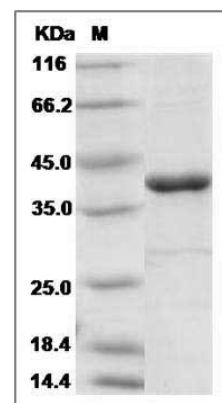
### Storage

Store it under sterile conditions at  $-20^{\circ}\text{C}$  to  $-80^{\circ}\text{C}$ . It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

### Reconstitution

Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

### SDS-PAGE



Human PTPN12 Protein SDS-PAGE