

Active Recombinant Human PTPN12 Protein, 2-300 aa, GST-tagged

Cat. No. PTPN12-1858H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human PTPN12 protein(2-300) with N-terminal GST tag was expressed in an <i>E.coli</i> expression system, MW=61.4 kDa.
Species	Human
Source	E.coli
ProteinLength	2-300 a.a.
Description	Protein tyrosine phosphatase-PEST (PTPN12), a ubiquitously expressed cytoplasmic tyrosine phosphatase, is thought to play an important role in cell adhesion and motility, cell migration, and signal transduction for antigen receptors in B and T lymphocytes. Signal transduction via tyrosine phosphorylation, normally fine-tuned by the concerted action of both protein tyrosine kinases and protein tyrosine phosphatases (PTPs), is a key mechanism in tumorigenesis. Studies suggest potential role for PTP-PEST in regulation of p130(cas) in mitogen- and cell adhesion-induced signaling events.
Formulation	25 mM Tris-HCl, pH 8.0, 75 mM NaCl, 0.05% Tween-20, 50% glycerol, 2 mM EDTA, 1 mM DTT, 10 mM glutathione.
Purity	> 90% by SDS-PAGE.
Specific Activity	1 U/ug. One unit will hydrolyze 1 nmol p-nitrophenyl phosphate per minute at pH 7.4

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and 30°C. Assay buffer: 50 mM HEPES, pH 7.4, 2 mM EDTA, 3 mM DTT, 100 mM NaCl, 50 mM pNPP.

Application

Useful for the study of enzyme kinetics, regulation, to dephosphorylate target substrates and for screening inhibitors.

Storage

>6 months at –80°C.

GENE INFORMATION

Gene Name

[PTPN12 protein tyrosine phosphatase, non-receptor type 12 \[Homo sapiens \]](#)

Synonyms

protein tyrosine phosphatase, non-receptor type 12; PTPG1; PTP-PEST; PTPN12; protein-tyrosine phosphatase G1; tyrosine-protein phosphatase non-receptor type 12; EC 3.1.3.48; OTTHUMP00000025119; Protein-tyrosine phosphatase G1

Gene ID

[5782](#)

mRNA Refseq

[NM_001131008](#)

Protein Refseq

[NP_001124480](#)

MIM

[600079](#)

UniProt ID

[Q05209](#)

Chromosome Location

7q11.23

Function

SH3 domain binding; hydrolase activity; protein binding; non-membrane spanning protein tyrosine phosphatase activity

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