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Datasheet for ABIN7197592

**PTPN2 Protein (GST tag,His tag)**

## Overview

Quantity:	100 µg
Target:	PTPN2
Origin:	Human
Source:	Baculovirus infected Insect Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This PTPN2 protein is labelled with GST tag,His tag.

## Product Details

Purpose:	Recombinant Human PTPN2/PTPT Protein (His & GST Tag)(Active)
Sequence:	Met 1-Asn 314
Characteristics:	A DNA sequence encoding the amino acid (Met 1-Asn 314) of human PTPN2 (P17706-1) was fused with the N-terminal polyhistidine-tagged GST tag at the N-terminus.
Purity:	> 75 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	Measured by its ability to dephosphorylate a phosphotyrosine residue in an EGF receptor 988-998 phosphopeptide substrate, R&D Systems, Catalog # ES006. The specific activity is > 30 nmoles/min/µg.

## Target Details

Target:	PTPN2
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## Target Details

Alternative Name:	PTPN2/PTPT ( <a href="#">PTPN2 Products</a> )
Background:	<p>Background: Tyrosine-protein phosphatase non-receptor type 2; also known as T-cell protein-tyrosine phosphatase; PTPN2 and PTPT; is a cytoplasm protein which belongs to the protein-tyrosine phosphatase family and Non-receptor class 1 subfamily. Members of the protein tyrosine phosphatase ( PTP ) family share a highly conserved catalytic motif; which is essential for the catalytic activity. TC-PTP / PTPN2 is a cytosolic tyrosine phosphatase that functions as a negative regulator of a variety of tyrosine kinases and other signaling proteins. The expression of TC-PTP / PTPN2 plays a role of tumor suppressor and may modulate response to treatment. PTPs are known to be signaling molecules that regulate a variety of cellular processes including cell growth; differentiation; mitotic cycle; and oncogenic transformation. Epidermal growth factor receptor and the adaptor protein Shc were reported to be substrates of this PTP; which suggested the roles in growth factor mediated cell signaling. TC-PTP / PTPN2 is an enzyme that is essential for the proper functioning of the immune system and that participates in the control of cell proliferation; and inflammation. TC-PTP / PTPN2 was identified as a negative regulator of NUP214-ABL1 kinase activity.</p> <p>Synonym: PTN2;PTPT;TC-PTP;TCELLPTP;TCPTP</p>
Molecular Weight:	64.4 kDa
Pathways:	<a href="#">EGFR Signaling Pathway</a> , <a href="#">Carbohydrate Homeostasis</a> , <a href="#">Regulation of Carbohydrate Metabolic Process</a> , <a href="#">Platelet-derived growth Factor Receptor Signaling</a>

## Application Details

Restrictions:	For Research Use only
Handling	
Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	<p>Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.</p> <p>Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at &lt; -20°C for 3 months.</p>