

Recombinant Human PTPN23, His-tagged

Cat. No. PTPN23-29212TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 1109-1447 of Human HDPTP with N terminal His tag; 339 amino acids, 39kDa.
Species	Human
Source	E.coli
ProteinLength	1109-1447 a.a.
Description	HDPTP (also known as PTPN23) is a protein tyrosine phosphatase that was isolated from a gastric cancer cell line. The predicted protein contains at least 1,636 amino acids and has several features distinct from those in previously identified PTPs, the most striking of which is the sequence VHCSSG instead of the invariant VHCSAG sequence at the PTP active center. PTPN23 contains a zinc-hand domain [also known as a His domain (HD)]; several SH3-binding motifs; a tyrosine phosphatase domain; a C-terminal PEST motif; and an N-terminal domain similar to yeast BRO1, mouse rhophilin, and human AIP1. It appears to be the homolog of rat PTPTD14 which has been found to inhibit activated H-ras-mediated cell transformation.
Conjugation	HIS
Form	Lyophilised:Reconstitute with 118 µl aqua dest.
Storage buffer	Preservative: NoneConstituents: 0.5% Trehalose, 6M Urea, 100mM Sodium phosphate, 10mM Sodium chloride, pH 4.5

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Storage	Shipped at 4°C. Upon delivery aliquot and store at -80oC. Avoid freeze / thaw cycles.
Sequences of amino acids	CLRRGAAAADLLSSSPESQHGGTQSPGGGQPLLQPTKVDA AEGRRPQALRLIERD PYEHPERLRQLQQELEAFRGQLG DVGALDVTWRELQDAQEHDARGRSIAIARCYS LKNRHQDV MPYDSNRVVLRSKGDDYINASCVEGLSPYCPPLVATQA PLPGTAADF WLMVHEQKVSVIVMLVSEAEMEKQKVARY FPTERGQPMVHGALSLALSSVRSTET HVERVLSLQFRDQS LKRSLVHLHFPTWPELGLPDSPSNLLRFIQEVHAHYLH QRPL HTPIIVHCSSGVGRTGAFALLYAAVQEVEAGNGI PELPQLVRRMRQQRKHMLQEKL HLRFCYE
GENE INFORMATION	
Gene Name	PTPN23 protein tyrosine phosphatase, non-receptor type 23 [Homo sapiens]
Official Symbol	PTPN23
Synonyms	PTPN23; protein tyrosine phosphatase, non-receptor type 23; tyrosine-protein phosphatase non-receptor type 23; DKFZP564F0923; HD PTP; KIAA1471;
Gene ID	25930
mRNA Refseq	NM_015466
Protein Refseq	NP_056281
MIM	606584
Uniprot ID	Q9H3S7
Chromosome Location	3p21.3

Function

hydrolase activity; protein binding; protein tyrosine phosphatase activity;

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