

Recombinant Full Length Human PTPN5 Protein, GST-tagged

Cat. No. PTPN5-6777HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTPN5 Protein full-length ORF (NP_008837.1, 1 a.a. - 565 a.a.) was expressed in wheat germ with N-terminal GST tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	565 amino acids
Description	This gene is a member of the equilibrative nucleoside transporter family. The gene encodes a transmembrane glycoprotein that localizes to the plasma and mitochondrial membranes and mediates the cellular uptake of nucleosides from the surrounding medium. The protein is categorized as an equilibrative (as opposed to concentrative) transporter that is sensitive to inhibition by nitrobenzylthioinosine (NBMPR). Nucleoside transporters are required for nucleotide synthesis in cells that lack de novo nucleoside synthesis pathways, and are also necessary for the uptake of cytotoxic nucleosides used for cancer and viral chemotherapies. Multiple alternatively spliced variants, encoding the same protein, have been found for this gene.
Form	50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0 in the elution buffer.
Molecular Mass	89.9 kDa
AA Sequence	MNYEGARSERENHAADDSEGGALDMCCSERLPGLPQPIVMEALDEAEGLQDSQRE

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MPPPPPPSPPSDPAQKPPPRGAGSHSLTVRSSLCLFAASQFLLACGVLWFSGYGHI
 WSQNATNLVSSLLTLLKQLEPTAWLDSGTWGVPSLLLVLVSVGLVLTTLVWHLRT
 PPEPPTPLPPEDRRQSVSRQPSFTYSEWMEEKIEDDFLDLDPVPETPVFDCVMDIKP
 EADPTSLTVKSMGLQERRGSNVSLTDMCTPGCNEEGFGYLMSPREESAREYLLSA
 SRVLQAEELHEKALDPFLLQAEFFEIPMNFVDPKEYDIPGLVRKNRYKTILPNPHSRV
 CLTSPDPDDPLSSYINANYIRGYGGEEKVYIATQGPIVSTVADFWRMVWQEHTPIIVM
 ITNIEEMNEKCTEYWPEEQVAYDGVETVQKVIHTEDYRLRLISLKSGTEERGLKHYW
 FTSPDQKTPDRAPLLHLVREVEEAAQQEGPHCAPIIVHCSAGIGRTGCFIATSICC
 QQLRQEGVVDILKTTCCQLRQDRGGMIQTCEQYQFVHHVMSLYEKQLSHQSPE

Storage Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

GENE INFORMATION

Gene Name	PTPN5 protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched) [Homo sapiens]
Official Symbol	PTPN5
Synonyms	PTPN5; protein tyrosine phosphatase, non-receptor type 5 (striatum-enriched); PTPSTEP; STEP;
Gene ID	5776
MIM	176879
UniProt ID	P54829

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