

PTPN5 Protein, Human, Recombinant (His & SUMO)

General Information

Synonyms:	Tyrosine-protein phosphatase non-receptor type 5;PTPN5;Neural-specific protein-tyrosine phosphatase;Striatum-enriched protein-tyrosine phosphatase (STEP)
Protein Construction:	300-555 aa
Species:	Human
Expression Host:	E. coli
Accession:	P54829
Molecular Weight:	45.5 kDa (predicted)
AA Sequence:	LQAEFFEIPMNFVDPKEYDIPGLVRKNRYKILPNPHSRVCLTSPDPDDPLSSYINANYIRGYGGEEKVYIATQG PIVSTVADFWRMVWQEHTPIIVMITNIEEMNEKCTEYWPEEQVAYDGVETVQKVIHTEDYRLRLISLKSGTEER GLKHYWFTSWPDQKTPDRAPLLHLVREVEEAAQEGPHCAPIIVHCSAGIGRTGCFIATSICCCQLRQEGVV DILKTTCCQLRQDRGGMIQTCEQYQFVHHVMSLY

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Tris-based buffer, 50% glycerol

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

May regulate the activity of several effector molecules involved in synaptic plasticity and neuronal cell survival, including MAPKs, Src family kinases and NMDA receptors.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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