

# Recombinant Human PTPRZ1 Protein (36-300 aa), His-SUMO-tagged

**Cat. No.** PTPRZ1-756H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human PTPRZ1 Protein (36-300 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Neuroscience. Protein Description: Partial.                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>ProteinLength</b>    | 36-300 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | Protein tyrosine phosphatase that negatively regulates oligodendrocyte precursor proliferation in the bryonic spinal cord. Required for normal differentiation of the precursor cells into mature, fully myelinating oligodendrocytes. May play a role in protecting oligodendrocytes against apoptosis. May play a role in the establishment of contextual mory, probably via the dephosphorylation of proteins that are part of important signaling cascades. |
| <b>Form</b>             | Tris-based buffer, 50% glycerol                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Molecular Mass</b>   | 46.1 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>AA Sequence</b>      | IGWSYTGALNQKNWGGKKYPTCNSPKQSPINIDEDLTQVNVNLKKLKFQGWDKTSLE<br>NTFIHNTGKTVEINLTNDYRVSGGVSEMVFKASKITFHWGKCNMSSDGSEHSLEGQ<br>KFPLEMQIYCFDADRFSSEAVKGGKGLRALSILFEVGTEENLDFKAIIDGVESVSRF                                                                                                                                                                                                                                                                              |

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|                      |                                                                                                                                                                                                                                                                                                                     |
|----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                      | GKQAALDPFILLNLLPNSTDKYYIYNGSLTSPPCDTVDWIVFKDTVSISESQ LAVFCE<br>VLTMQQSGYVMLMDYLQNNFREQQYKFSRQVFSSY                                                                                                                                                                                                                  |
| <b>Purity</b>        | > 90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                    |
| <b>Notes</b>         | Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.                                                                                                                                                                                                        |
| <b>Storage</b>       | The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade. |
| <b>Concentration</b> | A hardcopy of COA with concentration instruction is sent along with the products.                                                                                                                                                                                                                                   |

## GENE INFORMATION

|                        |                                                                                                  |
|------------------------|--------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | PTPRZ1 protein tyrosine phosphatase, receptor-type, Z polypeptide 1 [ Homo sapiens ]             |
| <b>Official Symbol</b> | PTPRZ1                                                                                           |
| <b>Synonyms</b>        | PTPRZ1; PTPRZ, PTPZ; phosphacan; PTP18; RPTPB; PTPZ; HPTPZ; PTPRZ; HPTPzeta; PTP-ZETA; RPTPbeta; |
| <b>Gene ID</b>         | 5803                                                                                             |
| <b>mRNA Refseq</b>     | NM_001206838                                                                                     |
| <b>Protein Refseq</b>  | NP_001193767                                                                                     |

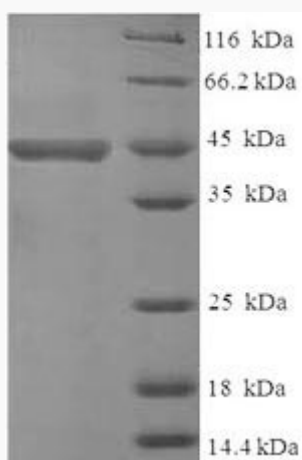
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**MIM** 176891

**UniProt ID** P23471



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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