

PTPRZ1 Protein, Human (P.pastoris, His)

Cat. No.:	HY-P71777
Synonyms:	3F8 chondroitin sulfate proteoglycan; 3H1 keratan sulfate proteoglycan; HPTPZ; HPTPzeta; Phosphacan; PTPRZ
Species:	Human
Source:	P. pastoris
Accession:	P23471 (36I-300Y)
Gene ID:	5803
Molecular Weight:	Approximately 32.1 kDa

PROPERTIES

AA Sequence	<pre> I G W S Y T G A L N Q K N W G K K Y P T C N S P K Q S P I N I D E D L T Q V N V N L K K L K F Q G W D K T S L E N T F I H N T G K T V E I N L T N D Y R V S G G V S E M V F K A S K I T F H W G K C N M S S D G S E H S L E G Q K F P L E M Q I Y C F D A D R F S S F E E A V K G K G K L R A L S I L F E V G T E E N L D F K A I I D G V E S V S R F G K Q A A L D P F I L L N L L P N S T D K Y Y I Y N G S L T S P P C T D T V D W I V F K D T V S I S E S Q L A V F C E V L T M Q Q S G Y V M L M D Y L Q N N F R E Q Q Y K F S R Q V F S S Y </pre>
Biological Activity	The enzyme activity of this recombinant protein is testing in progress, we cannot offer a guarantee yet.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against solution in Tris-based buffer, 50% glycerol.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	PTPRZ1 protein, a pivotal protein tyrosine phosphatase, serves as a negative regulator of oligodendrocyte precursor proliferation within the embryonic spinal cord. Its essential role extends to the normal differentiation of precursor cells, guiding their transformation into mature, fully myelinating oligodendrocytes. Additionally, PTPRZ1 may act as a protective factor against apoptosis in oligodendrocytes. Beyond its involvement in oligodendrocyte function, PTPRZ1 is implicated in
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the establishment of contextual memory, potentially through the dephosphorylation of proteins within crucial signaling cascades. This multifaceted role underscores the significance of PTPRZ1 in the intricate processes of oligodendrocyte development and neural signaling, shedding light on its potential contributions to both cellular differentiation and memory formation.

Caution: Product has not been fully validated for medical applications. For research use only.

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