

PRL-3/PTP4A3 Protein, Human, Recombinant (His)

General Information

Synonyms:	PRL-R;PRLR;PRL3;PTP4A3;PRL-3
Protein Construction:	Met1-Cys170
Species:	Human
Expression Host:	E. coli
Accession:	O75365-1
Molecular Weight:	20.29 kDa (predicted) same as Tris-Bis PAGE result.

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:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Supplied as 0.22 μ m filtered solution in 20 mM PB, 500 mM NaCl, 2 mM DTT, 20% Glycerol (pH 7.5).

Preparation and Storage

Stability & Storage:

It is recommended to store the product under sterile conditions at -70°C or lower. Samples are stable for up to 12 months at -80°C. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

Phosphatases of regenerating liver (PRL-1, PRL-2, and PRL-3, also known as PTP4A1, PTP4A2, and PTP4A3) control magnesium homeostasis through an association with the CNNM magnesium transport regulators. PTP4A3 (PRL-3) plays an important role in the tumorigenesis and metastasis of multiple tumors.

Reference

Hardy S, et al. Magnesium-sensitive upstream ORF controls PRL phosphatase expression to mediate energy metabolism. Proc Natl Acad Sci U S A. 2019 Feb 19;116(8):2925-2934. doi: 10.1073/pnas.1815361116. Epub 2019 Feb 4. PMID: 30718434; PMCID: PMC6386685.

Song Q, et al. PTP4A3 Is a Prognostic Biomarker Correlated With Immune Infiltrates in Papillary Renal Cell Carcinoma. Front Immunol. 2021 Sep 23;12:717688. doi: 10.3389/fimmu.2021.717688. PMID: 34630392; PMCID: PMC8495008.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481