# Recombinant Human PRL-2 Protein

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Catalog No.: RP02140 Recombinant

# **Sequence Information**

**Species** Gene ID **Swiss Prot** Human 8073 012974

# **Tags**

C-His

#### **Synonyms**

PTP4A2;HH13;HH7-2;HU-PP-1;OV-1;PRL-2;PRL2;PTP4A;PTPCAAX2; ptp-IV1a;ptp-IV1b

# **Product Information**

Source **Purification** E. coli ≥ 95 % as

determined by SDS-PAGE.

# Calculated MW Observed MW

20.2 kDa 18 kDa

#### **Endotoxin**

< 1 EU/µg of the protein by LAL method.

#### **Formulation**

Lyophilized from a 0.2 µm filtered solution of 20mM HEPES, 150mM NaCl, 10mM β-ME, pH 7.4.Contact us for customized product form or formulation.

#### Reconstitution

Centrifuge the tube before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

### Contact

<u>a</u>	400-999-6126
$\bowtie$	cn.market@abclonal.com.cn
•	www.abclonal.com.cn

### Background

PTP4A2, also known as PRL2 or PTPCAAX2, is short for Protein tyrosine phosphatase type IVA 2. This protein exists in cell membrane, cytoplasm, endosome and membrane. PTP4A2 is often farnesylated during post-translational modification. Farnesylation is required for membrane targeting and for interaction with RABGGTB. The unfarnesylated forms are redirected to the nucleus and cytosol. It can stimulate progression from G1 into S phase during mitosis and promotes tumors. It also inhibits geranylgeranyl transferase type II activity by blocking the association between RABGGTA and RABGGTB.

### **Basic Information**

#### Description

Recombinant Human PRL-2 Protein is produced by E.coli expression system. The target protein is expressed with sequence (Met1-Gln167) of human PRL2 (Accession #Q12974) fused with a 6xHis tag at the C- terminus.

#### **Bio-Activity**

#### Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

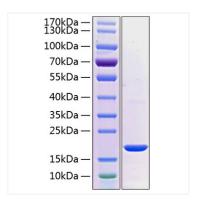
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

# **Operational Notes**

For your safety and health, please wear a lab coat and disposable gloves for handling.

# **Validation Data**



Recombinant Human PRL-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.