

# Human PILRA Protein

Cat. No. PRA-HM101



## Description

|                         |   |
|-------------------------|---|
| <b>Source</b>           | Recombinant Human PILRA Protein is expressed from HEK293 with His tag at the C-terminus.<br>It contains Gln20-Ala197.               |
| <b>Accession</b>        | Q9UKJ1-1  |
| <b>Molecular Weight</b> | The protein has a predicted MW of 21.32 kDa. Due to glycosylation, the protein migrates to 40-50 kDa based on Bis-Tris PAGE result. |
| <b>Endotoxin</b>        | Less than 1EU per µg by the LAL method.   |
| <b>Purity</b>           | > 95% as determined by Bis-Tris PAGE<br>> 95% as determined by HPLC   |

## Formulation and Storage

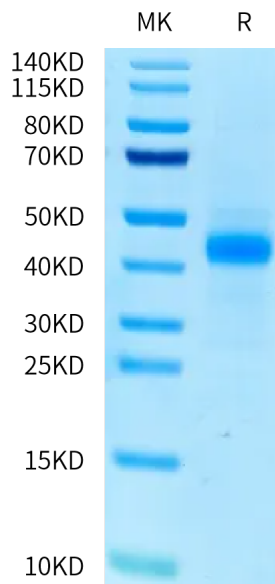
|                       |  |
|-----------------------|--|
| <b>Formulation</b>    | Lyophilized from 0.22 µm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.  |
| <b>Reconstitution</b> | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 µg/ml is recommended. Dissolve the lyophilized protein in distilled water.   |
| <b>Storage</b>        | -20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3-6 months after reconstitution. 2-8°C for 2-7 days after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Alzheimer's disease (AD) is a neurodegenerative disease characterized by a progressive decline in cognitive performance; Mild Cognitive Impairment (MCI) is instead an objective decline in cognitive performance that does not reach pathology. Paired immunoglobulin-like type 2 receptor alpha (PILRA) is a cell surface inhibitory receptor that was recently suggested to be involved in AD pathogenesis. In particular, the arginine-to-glycine substitution in position 78 (R78, rs1859788) was shown to be protective against AD.

## Assay Data

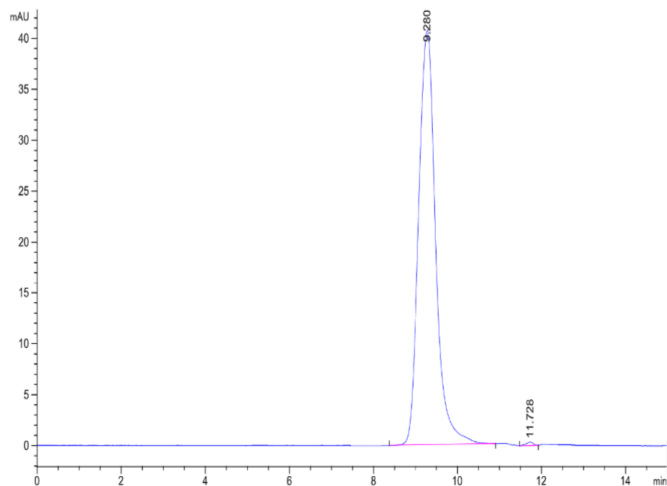
### Bis-Tris PAGE



Human PILRA on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data

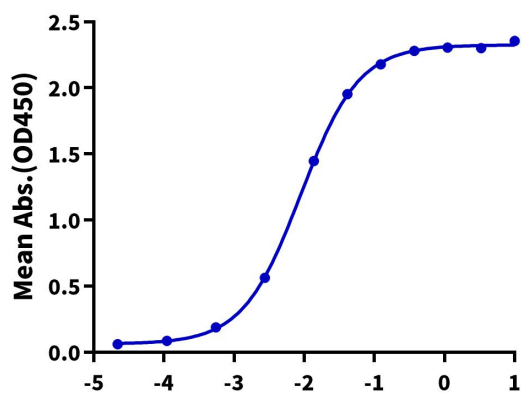


The purity of Human PILRA is greater than 95% as determined by SEC-HPLC.

ELISA Data

**Human PILRA, His Tag ELISA**

0.05µg Human PILRA, His Tag Per Well



Immobilized Human PILRA, His Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-PILRA Antibody, Rabbit IgG Tag with the EC50 of 8.9ng/ml determined by ELISA.