

# Human IL-1 R9 Protein

Cat. No. ILR-HM2R9

## Description

<b>Source</b>	Recombinant Human IL-1 R9 Protein is expressed from HEK293 with hFc tag at the C-terminus. It contains Thr17-Lys354.
<b>Accession</b>	Q9NP60
<b>Molecular Weight</b>	The protein has a predicted MW of 65.66 kDa. Due to glycosylation, the protein migrates to 75-95 kDa based on Bis-Tris PAGE result.
<b>Endotoxin</b>	Less than 1EU per $\mu\text{g}$ by the LAL method.
<b>Purity</b>	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

## Formulation and Storage

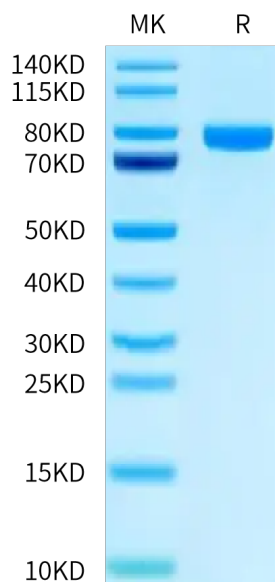
<b>Formulation</b>	Lyophilized from 0.22 $\mu\text{m}$ filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
<b>Reconstitution</b>	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. 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

The interleukin 1 receptor (IL-1R) and the Toll-like receptors (TLRs) are highly homologous innate immune receptors that provide the first line of defense against infection. IL-1R have appeared for functions that do not require IL-1 ligand binding is supported by the case of the orphan receptors IL-1R10 and IL-1R9, which do not have known ligands and that have non-immune functions in the brain.

## Assay Data

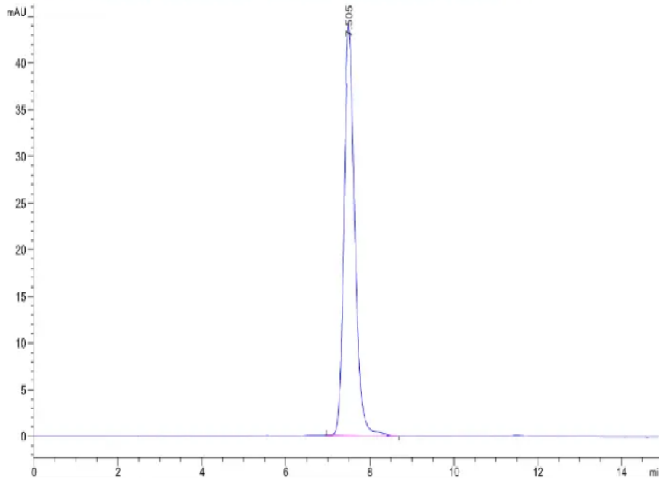
### Bis-Tris PAGE



Human IL-1 R9 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### SEC-HPLC

Assay Data



The purity of Human IL-1 R9 is greater than 95% as determined by SEC-HPLC.