

Mouse IL-1R1 Protein

Cat. No. IL1-MM1R1

Description

Source	Recombinant Mouse IL-1R1 Protein is expressed from HEK293 with His tag at the C-Terminus. It contains Leu20-Lys338.
Accession	P13504-1
Molecular Weight	The protein has a predicted MW of 38.4 kDa. Due to glycosylation, the protein migrates to 50-70 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE > 95% as determined by HPLC

Formulation and Storage

Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	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.
Storage	-20 to -80°C for 12 months as supplied from date of receipt. -80°C for 3 months after reconstitution. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interleukin 1 (IL-1) has long been known for its pleiotropic effects on inflammation that plays a complex, and sometimes contrasting, role in different stages of cancer development. IL-1R1 is the main receptor for both ligands and is expressed by various cell types, including innate and adaptive immune cell types, epithelial cells, endothelial cells, adipocytes, chondrocytes, fibroblasts, etc. IL-1 and IL-1R1 receptor interaction leads to a set of common signaling pathways, mainly the NF- κB and MAP kinase pathways, as a result of complex positive and negative regulations.

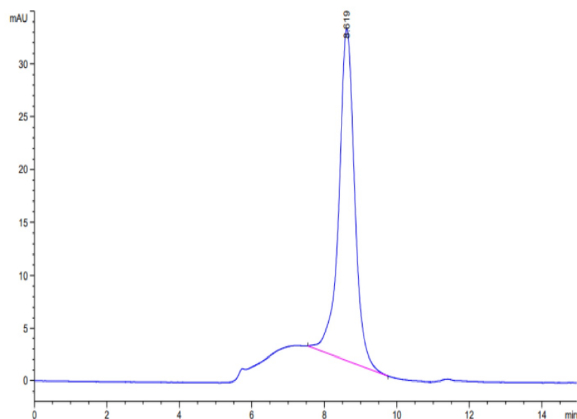
Assay Data

Bis-Tris PAGE



Mouse IL-1R1 on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC



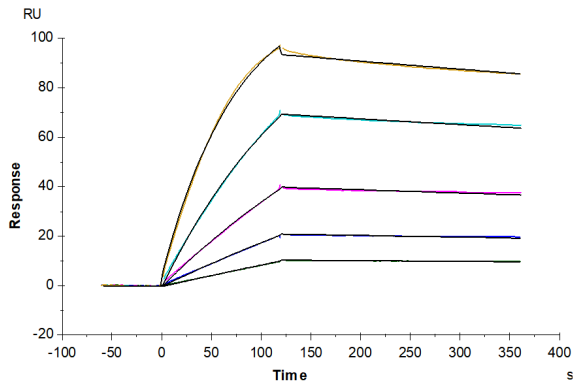
The purity of Mouse IL-1R1 is greater than 95% as determined by SEC-HPLC.

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Assay Data

SPR Data



Mouse IL-1R1, His Tag immobilized on CM5 Chip can bind Mouse IL-1 alpha, His Tag with an affinity constant of 51.22 nM as determined in SPR assay (Biacore T200).