Rat IL-23R Protein, Ultra Low Endotoxin

Cat. No. ILR-RM223-UL

Description

Source	Recombinant Rat IL-23R Protein is expressed from HEK293 with hFc tag at the C-terminus.
	It contains Gly39-Asp367.
Accession	F1LX96
Molecular Weight	The protein has a predicted MW of 63.61 kDa. Due to glycosylation, the protein migrates to 90-120 kDa based on Bis-Tris PAGE result.
Endotoxin	Less than 0.01 EU per μg by the LAL method.
Purity	> 95% as determined by Bis-Tris PAGE

Formulation and Storage

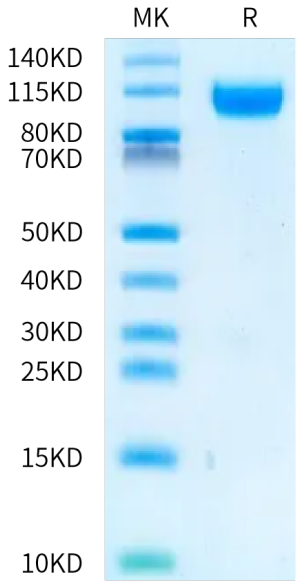
Formulation	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Dissolve the lyophilized protein in distilled water. Please refer to the Certificate of Analysis for detailed instructions.
Storage	-20 to -80°C for 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-23 (IL-23), a member of the IL-12 family of cytokines, is a heterodimeric cytokine. It is composed of subunits p40 (shared with IL-12) and p19 (an IL-12 p35-related subunit) and is secreted by several types of immune cells, such as natural killer cells and dendritic cells. The IL-23 receptor is composed of the subunit IL-12Rβ1 and the IL-23-specific subunit IL-23R. The binding of IL-23 to its specific cell surface receptor regulates a number of functions, including proliferation and differentiation of cells and secretion of cell factors.

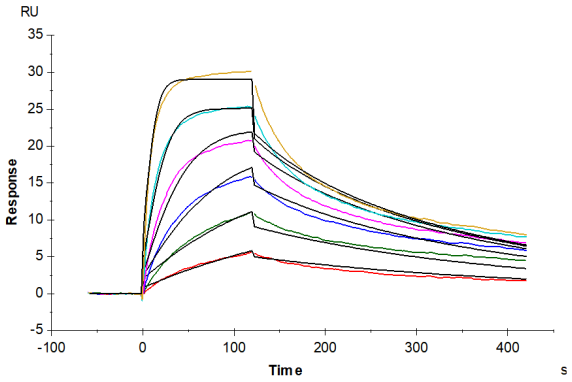
Assay Data

Bis-Tris PAGE



Rat IL-23R on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

SPR Data



Rat IL-23R, hFc Tag captured on CM5 Chip via Protein A can bind Human IL-23 alpha&IL-12 beta, His Tag with an affinity constant of 3.79 nM as determined in SPR assay (Biacore T200).