Mouse IL-23R Protein

Cat. No. ILR-MM123

Description

Source	Recombinant Mouse IL-23R Protein is expressed from HEK293 with His tag at the C-Terminus.
	It contains Gly24-Gly374.
Accession	Q8K4B4
Molecular Weight	The protein has a predicted MW of 41.48 kDa. Due to glycosylation, the protein migrates to 60-80 kDa based on Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE
	> 95% as determined by HPLC

Formulation and Storage

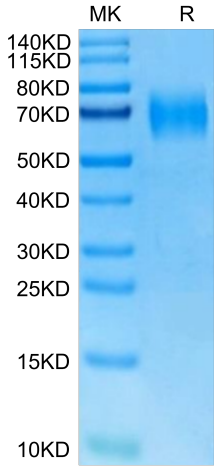
Formulation	Supplied as 0.22μm filtered solution in PBS (pH 7.4).
Storage	Valid for 12 months from date of receipt when stored at -80°C.Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles.

Background

Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. The functional IL-23 receptor complex consists of two receptor subunits, the IL-12 receptor beta 1 subunit (IL-12 R beta 1) and the IL-23-specific receptor subunit (IL-23 R).This receptor associates with IL12RB1 to form the interleukin-23 receptor. Binds IL23 and mediates T-cells, NK cells and possibly certain macrophage/myeloid cells stimulation probably through activation of the Jak-Stat signaling cascade.

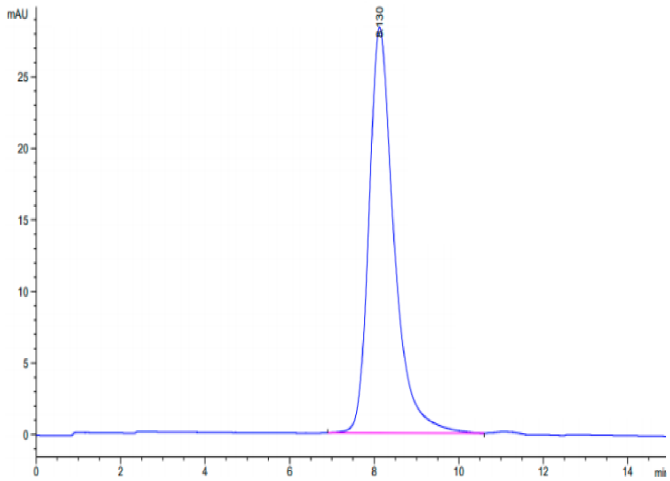
Assay Data

Tris-Bis PAGE



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

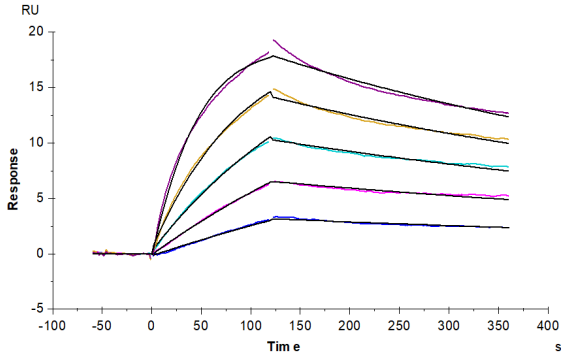
SEC-HPLC



The purity of Mouse IL-23R is greater than 95% as determined by SEC-HPLC.

Assay Data

SPR Data



Mouse IL-23R, His Tag immobilized on CM5 Chip can bind Mouse IL-23 alpha&IL-12 beta, His Tag with an affinity constant of 6.31 nM as determined in SPR assay (Biacore T200).