Cynomolgus IL-11 Protein

Cat. No. IL1-CM111

Description

Source	Recombinant Cynomolgus IL-11 Protein is expressed from HEK293 with His tag at the N-Terminus.
	It contains Pro22-Leu199.
Accession	P20808
Molecular Weight	The protein has a predicted MW of 20.48 kDa. Due to glycosylation, the protein migrates to 21-25 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

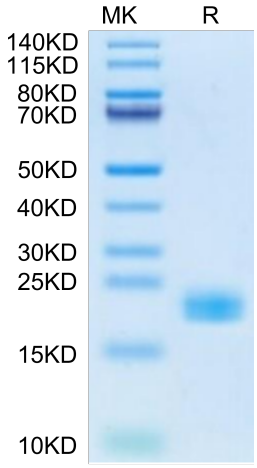
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state 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

Abstract Interleukin-11 (IL-11) is a pleiotropic cytokine that belongs to gp130 family. IL-11 and its receptor, IL-11Ra, are expressed in human cancers,human cancer cells expressed a functional IL-11Ra subunit, which triggered signal transduction either by exogenous recombinant human IL-11 or by autocrine production of IL-11 in cells cultured under hypoxic conditions.

Assay Data

Tris-Bis PAGE



Cynomolgus IL-11 on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.

SEC-HPLC

For Research Use Only

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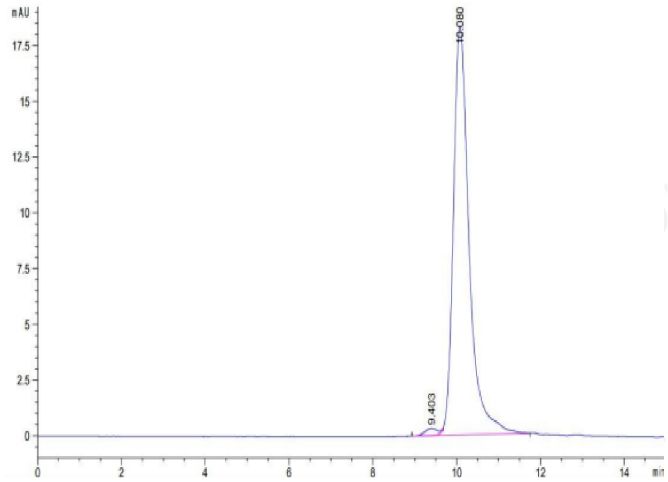
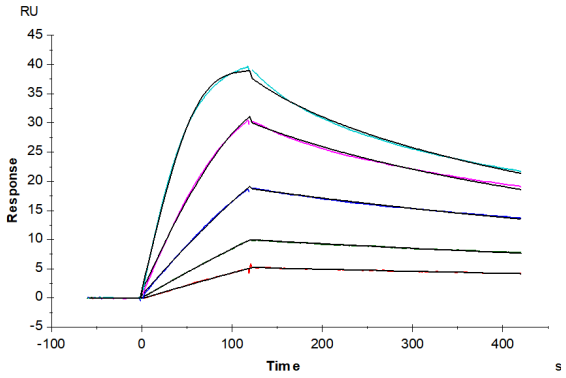
Assay Data



The purity of Cynomolgus IL-11 is greater than 95% as determined by SEC-HPLC.

SPR Data



Human IL-11 R alpha, hFc Tag captured on CM5 Chip via Protein A can bind Cynomolgus IL-11, His Tag with an affinity constant of 0.25 nM as determined in SPR assay (Biacore T200).

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