

Human IL-11 Protein

Cat. No. IL1-HM111

Description

Source	Recombinant Human IL-11 Protein is expressed from Expi293 with His tag at the N-terminal. It contains Pro22-Leu199.
Accession	P20809-1
Molecular Weight	The protein has a predicted MW of 20.24 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

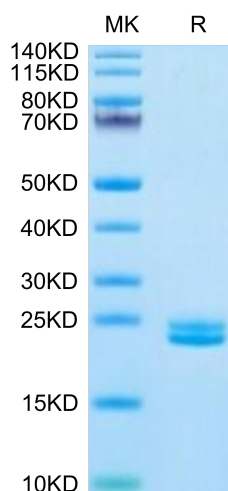
Formulation	Supplied as 0.22µm filtered solution in PBS (pH 7.4). Please dilute to the desired concentration according to the concentration of the solution shown on the product label.
Storage	Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please do not repeated 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.

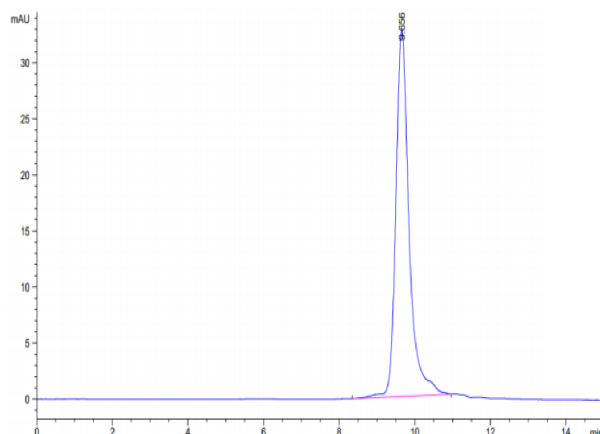
Assay Data

Tris-Bis PAGE



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

SEC-HPLC

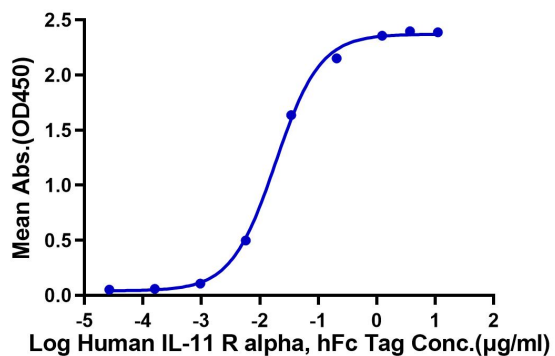


The purity of Human IL-11 is greater than 95% as determined by SEC-HPLC.

ELISA Data

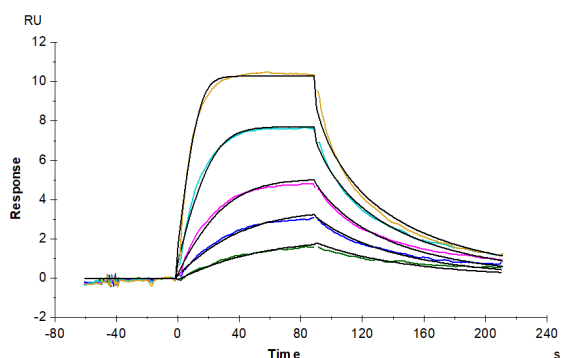
Assay Data

Human IL-11, His Tag ELISA
0.1µg Human IL-11, His Tag Per Well



Immobilized Human IL-11, His Tag at 1µg/ml (100µl/Well) on the plate. Dose response curve for Human IL-11 R alpha, hFc Tag with the EC50 of 18.6ng/ml determined by ELISA.

SPR Data



Human IL-11R alpha, His Tag immobilized on CM5 Chip can bind Human IL-11, His Tag with an affinity constant of 1.86 nM as determined in SPR assay (Biacore T200).