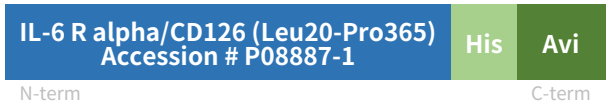
Rev03
Update: Aug,08,2025

DATASHEET

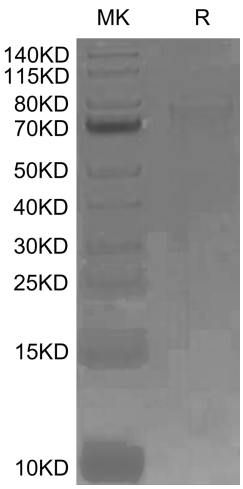
IL-6 R alpha/CD126, His & Avi, Human

Cat. No.: Z05511

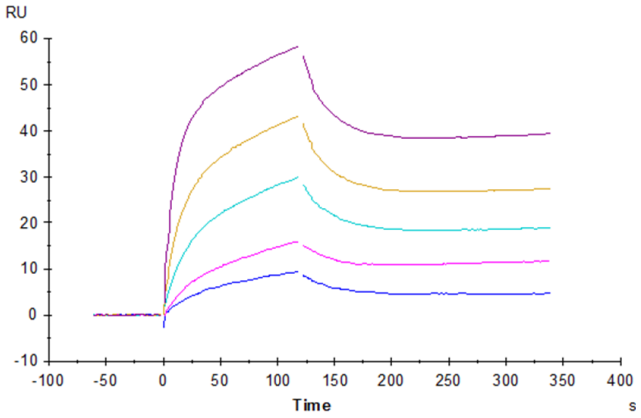
Product Introduction

Species	Human
Protein Construction	
Purity	> 95% as determined by BisTris PAGE > 95% as determined by HPLC
Endotoxin Level	Less than 1EU per μg by the LAL method.
Biological Activity	Measured by its binding ability in a functional ELISA. Immobilized Human IL6, No Tag at 5μg/ml (100μl/well) on the plate can bind IL-6 R alpha/CD126, His & Avi, Human. Test result was comparable to standard batch.
Expression System	HEK293
Theoretical Molecular Weight	41.4 kDa
Apparent Molecular Weight	Due to glycosylation, the protein migrates to 65-78 kDa based on Bis-Tris PAGE result.
Formulation	Lyophilized from 0.22μm filtered solution in PBS (pH 7.4).
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 & Stability	Upon receiving, the product remains stable up to 6 months at -20 °C or below. Upon reconstitution, the product should be stable for 3 months at -80 °C. Avoid repeated freeze-thaw cycles.

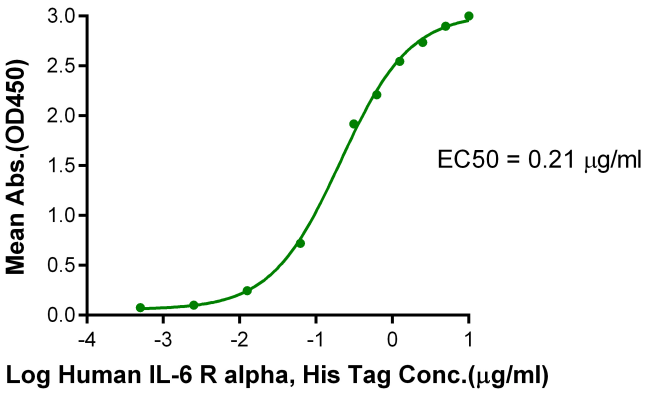
Examples



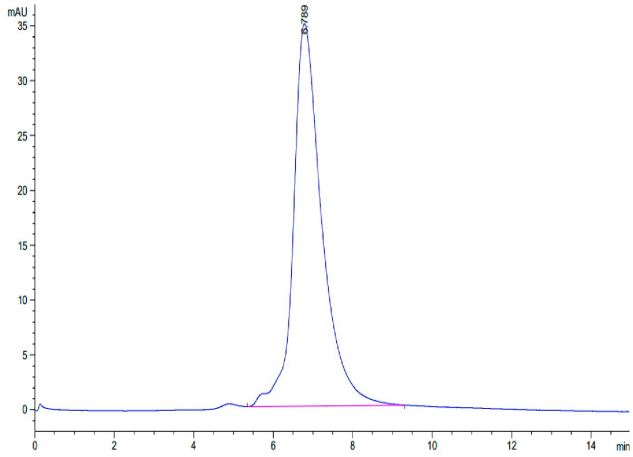
IL-6 R alpha/CD126, His & Avi, Human on Bis-Tris PAGE under reduced conditions. The purity is greater than 95%.



IL-6 R alpha/CD126, His & Avi, Human, His Tag captured on CM5 Chip via anti-his antibody can bind Human IL-6, No Tag with an affinity constant of 0.22 nM as determined in SPR assay (Biacore T200).



Immobilized Human IL-6, No Tag at 5μg/ml (100μl/well) on the plate. Dose response curve for IL-6 R alpha/CD126, His & Avi, Human, His Tag with the EC50 of 0.21μg/ml determined by ELISA.



The purity of IL-6 R alpha/CD126, His & Avi, Human is greater than 95% as determined by SEC-HPLC.

Background

Target Background : The multifunctional factor interleukin 6 (IL-6) exerts its activities through binding to a high-affinity receptor complex consisting of two membrane glycoproteins: an 80 kDa component receptor that binds IL-6 with low affinity (IL-6R alpha) and a signal-transducing component of 130 kDa (gp130) that does not bind IL-6 by itself, but is required for high-affinity binding of IL-6 by the complex. Both components of the receptor complex, IL-6R alpha and gp130 have been cloned, sequenced, and expressed.

Synonyms : IL-6R subunit alpha; IL-6R-alpha; IL-6RA; IL-6R 1; IL6R; CD126; IL6RQ; gp80

For research use only. Not intended for human or animal clinical trials, therapeutic or diagnostic use.

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