# Human IL-2 R beta&IL-2 R gamma Heterodimer Protein, His Tag&Twin-Strep Tag

Catalog # ILG-H5283AI

## Application

Human IL-2RB&IL-2RG Heterodimer Protein, His Tag&Twin-Strep Tag AIDD-Ready protein is designed for direct use in SPR assays. It is supplied in a sugar-free, glycerol-free formulation to eliminate refractive index interference in SPR. No desalting or buffer exchange is required before use, simplifying the SPR workflow and supporting high-throughput experimental validation to accelerate the transition from AI prediction to wet-lab validation.

## Features and Advantages

- **Directly compatible with SPR:** No desalting or buffer exchange required; supplied as a liquid to reduce sample preparation and improve experimental efficiency.
- **High batch-to-batch consistency:** Each lot is released using SPR QC to ensure experimental reproducibility.
- **Validated with representative drugs:** SPR binding activity is validated using representative drug antibodies to ensure suitability for drug screening and evaluation.

## Synonyms

IL-2 R beta & IL-2 R gamma, IL-2RB & IL-2RG

## Source

Human IL-2RB&IL-2RG Heterodimer Protein, His Tag&Twin-Strep Tag (ILG-H5283AI) is expressed from human 293 cells (HEK293). It contains AA Ala 27 - Asp 239 (IL-2RB) & Leu 23 - Asn 254 (IL-2RG) (Accession # NP_000869.1 (IL-2RB) & P31785-1 (IL-2RG)).

Predicted N-terminus: Ala 27 (IL-2RB) & Leu 23 (IL-2RG)

## Molecular Characterization




The protein has a calculated MW of 29.9 kDa & 34.1 kDa. The protein migrates as 38-43 kDa and 55-65 kDa when calibrated against Star Ribbon Pre-stained Protein Marker under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Purity

>90% as determined by SDS-PAGE.

>90% as determined by SEC-HPLC.

## Formulation

Formulated in a proprietary trehalose-free buffer, supplied ready-to-use for SPR/BLI analysis - no buffer exchange required.

For detailed formulation, please refer to the batch-specific COA.

## Shipping and Storage

This product is supplied and shipped on dry ice.

**Please avoid repeated freeze-thaw cycles.**

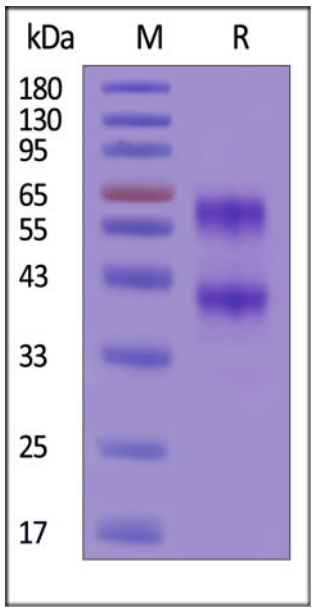
This product is stable after storage at:

- The product MUST be stored at -70°C or lower upon receipt;
- -70°C for 12 months under sterile conditions.

## ACRO Quality Management System

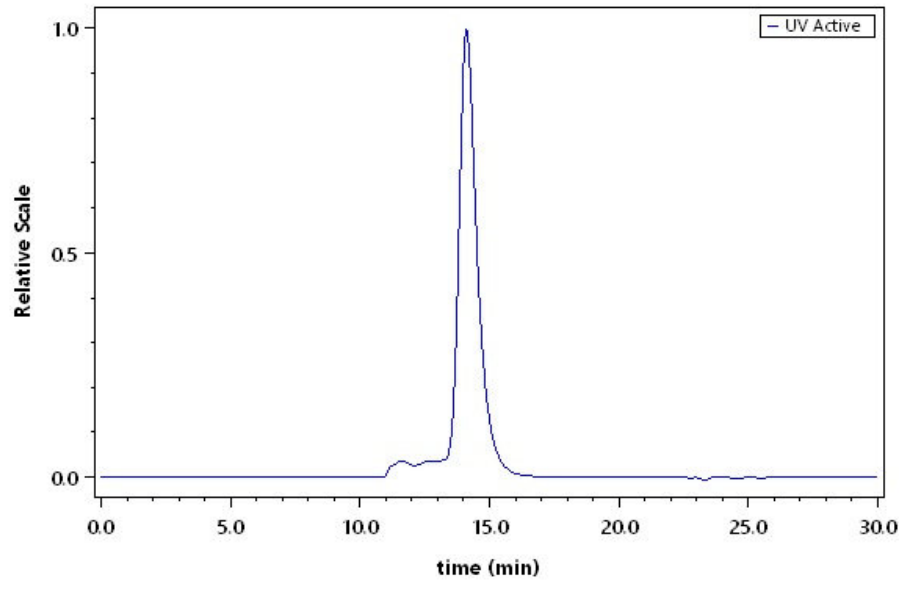
- QMS(ISO, GMP)
- Quality Advantages
- Quality Control Process

## SDS-PAGE



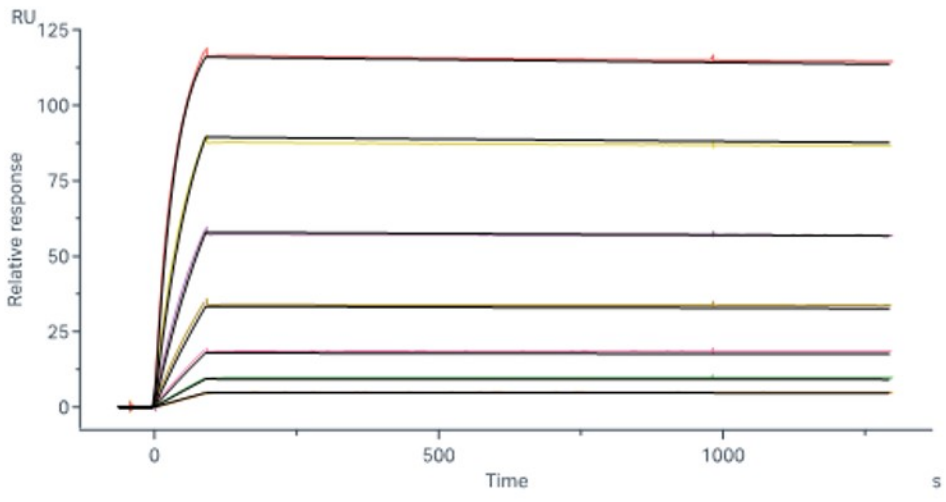

Human IL-2RB&IL-2RG Heterodimer Protein, His Tag&Twin-Strep Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With Star Ribbon Pre-stained Protein Marker).

## SEC-HPLC




The purity of Human IL-2RB&IL-2RG Heterodimer Protein, His Tag&Twin-Strep Tag (Cat. No. ILG-H5283AI) was greater than 90% as determined by SEC-HPLC.

## Activity-SPR




Human IL-2 Protein, Fc Tag (Cat. No. IL2-H5269) captured on Protein A Chip can bind Human IL-2RB&IL-2RG Heterodimer Protein, His Tag&Twin-Strep Tag (Cat. No. ILG-H5283AI) with an affinity constant of 79.3 pM as determined in a SPR assay (Biacore 8K) (QC tested).

## Background

Both Interleukin-2 receptor subunit beta and Interleukin-2 receptor subunit gamma are receptor for interleukin-2. Common subunit for the receptors for a variety of interleukins. Interacts with SHB upon interleukin stimulation. Probably in association with IL15RA, involved in the stimulation of neutrophil phagocytosis by IL15. This beta subunit is involved in receptor mediated endocytosis and transduces the mitogenic signals of IL2. IL2R exists in 3 different forms: a high affinity dimer, an intermediate affinity monomer (beta subunit), and a low affinity monomer (alpha subunit). The high and intermediate affinity forms also associate with a gamma subunit.

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