

IL-2RG Protein, Mouse, Recombinant (His)

General Information

Synonyms:	gamma(c);interleukin 2 receptor, γ ;interleukin 2 receptor, gamma;[g]c;gc; γ (c);CD132
Protein Construction:	Trp23-Ala263
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P34902
Molecular Weight:	29.31 kDa (Predicted); 50-65 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Activity testing is not tested. It is theoretically active, but we cannot guarantee it.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μ m filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The gamma chain of the high affinity functional human IL-2 receptor complex belongs to the hematopoietin receptor family. IL-2 R gamma is a 369 amino acid residue protein consisting of a 22 residue signal sequence, a 232 residue extracellular domain, a 29 residue transmembrane domain and an 86 residue cytoplasmic domain. Although IL-2 R gamma by itself does not bind IL-2 with any appreciable affinity, it is required for IL-2 receptor signaling.

Reference

Russell SM,et al.(1993) Interleukin-2 receptor gamma chain: a functional component of the interleukin-4 receptor. Science. 262 (5141): 1880-3.

Miyazaki T,et al.(1994) Functional activation of Jak1 and Jak3 by selective association with IL-2 receptor subunits. Science. 266 (5187): 1045-7.

Takeshita T,et al.(1992) Cloning of the gamma chain of the human IL-2 receptor. Science. 257 (5068): 379-82.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only· Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481