

CD25/IL2R alpha Protein, Human, Recombinant (N-His)

General Information

Synonyms:	soluble IL-2 receptor;IL-2R α ;Tac antigen;CD25 antigen;TAC-antigen;IL2RA
Protein Construction:	Glu22-Cys213
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P01589
Molecular Weight:	~42 kDa (Reducing conditions)

QC Testing

Biological Activity:	Determined by its ability to increase the proliferation effect of IL-2 in murine CTLL-2 cells. In the presence of 1.0 ng/ml of recombinant IL-2, ED 50 for this effect is < 1.5 μ g/ml.
Purity:	> 95% as determined by SDS-PAGE; > 95% as determined by HPLC
Endotoxin:	< 0.2 EU/ μ g of protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution in PBS.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized 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:

Upon receiving, this product remains stable for up to 6 months at lower than -70°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. For long term storage it is recommended that a carrier protein (example 0.1% BSA) be added. Avoid repeated freeze-thaw cycles.

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

Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to the cytokine IL-2. The IL-2R is made up of 3 subunits - alpha (α), beta (β) and gamma (γ). The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ -chain, along with the β subunit. The β and γ chains of the IL-2R are members of the type I cytokine receptor family. IL-2R has a high binding affinity to IL-2 and is expressed by antigen-activated T lymphocytes (T cells). IL-2 R α is also known as CD25, p55, and Tac (activated T cell) antigen.

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