

Rev04
 Update: Mar,01,2022

DATASHEET

IL-2 R α , His, Human

Cat. No.: Z03297

Product Introduction

Species	Human
Protein Construction	<div style="display: flex; align-items: center; justify-content: center;"> <div style="background-color: #4a7c9c; color: white; padding: 5px; margin-right: 10px;">Poly-His</div> <div style="background-color: #0070c0; color: white; padding: 5px; margin-right: 10px;">IL-2 Rα (Glu22-Cys213)</div> <div style="background-color: #0070c0; color: white; padding: 5px;">Accession # P01589</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> N-term C-term </div>
Purity	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
Endotoxin Level	< 0.2 EU/ μ g of protein by gel clotting method
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.
Expression System	HEK 293
Apparent Molecular Weight	~42 kDa, on SDS-PAGE under reducing conditions.
Formulation	Lyophilized after extensive dialysis against PBS.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in ddH ₂ O or PBS up to 100 μ g/ml.
Storage & Stability	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.

Background

Target 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.

Synonyms : IL2RA; soluble IL-2 receptor; TAC-antigen; CD25 antigen; Tac antigen; IL-2R α

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.