

Rev04  
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**DATASHEET**

# IL-4 R, Human

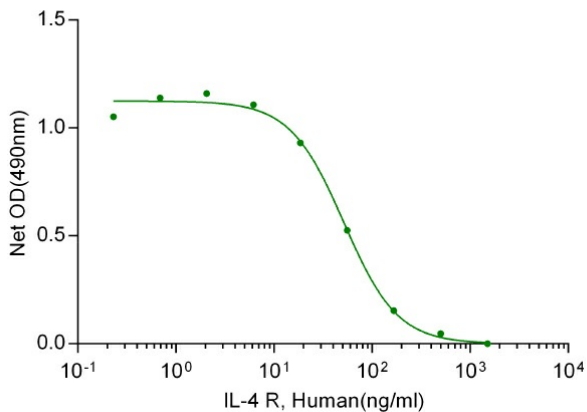
Cat. No.: Z03150

## Product Introduction

<b>Species</b>	Human
<b>Protein Construction</b>	<b>IL-4R (Gly24-His232) Accession # P24394</b>
<b>Purity</b>	> 95% as analyzed by SDS-PAGE > 95% as analyzed by HPLC
<b>Endotoxin Level</b>	< 0.2 EU/μg of protein by gel clotting method
<b>Biological Activity</b>	ED <sub>50</sub> < 70.0 ng/ml, measured in a neutralization assay using TF-1 cells in the presence of 0.5 ng/ml h-IL-4.
<b>Expression System</b>	HEK 293
<b>Apparent Molecular Weight</b>	40~45 kDa, on SDS-PAGE under reducing conditions.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	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 <sub>2</sub> O or PBS up to 100 μg/ml.
<b>Storage &amp; Stability</b>	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.

## Examples

ED<sub>50</sub> < 70 ng/ml, measured in a neutralization assay using TF-1 cells in the presence of IL-4, Human (Z02925).



## Background

**Target Background :** Interleukin-4 Receptor, also known as IL-4RA and CD124, is a transmembrane glycoprotein belonging to the class I receptor family. It is highly expressed by activated T-cells. IL-4RA couples with  $\gamma$  chain to form the type I receptor for IL-4. The extracellular domain of IL-4RA binds to IL-4 and antagonizes its activity. IL-4RA plays an important role in Th2 cell differentiation, Ig class switching and alternative macrophage activation. It has also been implicated in allergic inflammation, tumor progression and atherogenesis.

**Synonyms :** IL4R; CD124; IL-4RA; IL4RA; Interleukin-4 receptor; interleukin 4 receptor

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