

# Recombinant Human IL2RA Protein (Glu22-Cys213)

## Product Information

---

<b>Cat</b>	IMP-10533
<b>Official Symbol</b>	IL2RA
<b>Product Overview</b>	Recombinant human CD25/IL-2R alpha protein (Glu22-Cys213) without tag was expressed in Mouse myeloma cell line.
<b>Description</b>	<p>The interleukin 2 (IL2) receptor alpha (IL2RA) and beta (IL2RB) chains, together with the common gamma chain (IL2RG), constitute the high-affinity IL2 receptor. Homodimeric alpha chains (IL2RA) result in low-affinity receptor, while homodimeric beta (IL2RB) chains produce a medium-affinity receptor. Normally an integral-membrane protein, soluble IL2RA has been isolated and determined to result from extracellular proteolysis. Alternately-spliced IL2RA mRNAs have been isolated, but the significance of each is presently unknown. Mutations in this gene are associated with interleukin 2 receptor alpha deficiency. Patients with severe Coronavirus Disease 2019 (COVID-19), the disease caused by the novel severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2), have significantly elevated levels of IL2R in their plasma. Similarly, serum IL-2R levels are found to be elevated in patients with different types of carcinomas. Certain IL2RA and IL2RB gene polymorphisms have been associated with lung cancer risk.</p>
<b>Expression System</b>	Mouse myeloma cell line
<b>Species</b>	Human
<b>Tag</b>	Tag Free
<b>Predicted N Terminal</b>	Glu22
<b>Form</b>	Lyophilized from a 0.2 µm filtered solution in PBS with BSA as a carrier protein.
<b>Molecular Mass</b>	Predicted Molecular Mass: 22 kDa SDS-PAGE: 36 kDa, reducing conditions
<b>Protein length</b>	Glu22-Cys213
<b>Bio-activity</b>	Measured by its ability to inhibit the IL-2-dependent proliferation of MO7e human megakaryocytic leukemic cells. The ED50 for this effect is 0.15-0.75 µg/mL in the presence of 30 ng/mL of recombinant human IL-2.
<b>Endotoxin</b>	
<b>Purity</b>	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2

*to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.*

**Reconstitution**

*Reconstitute at 10 µg/mL in sterile PBS containing at least 0.1% human or bovine serum albumin.*