

# Human IL2RG/CD132, C-His Tag (ECD) Protein

HA210567



<b>Product name:</b>	Human IL2RG/CD132, C-His Tag (ECD)
<b>Species reactivity:</b>	Human
<b>Bio-Activity:</b>	Testing in progress.
<b>Protein construction description:</b>	A DNA sequence encoding the human IL2RG/CD132 protein (P31785) (Leu 23-Ala 262) was expressed with a His tag at the C-terminus.

**Background:** The protein encoded by this gene is an important signaling component of many interleukin receptors, including those of interleukin -2, -4, -7 and -21, and is thus referred to as the common gamma chain. Mutations in this gene cause X-linked severe combined immunodeficiency (XSCID), as The IL2RG gene provides instructions for making a protein called the common gamma chain. This protein is a component of several different receptors that are involved in immune system function. The receptors span the cell membrane, with one end outside the cell like an antenna and the other end inside to transmit signals to the nucleus. Other proteins attach to these receptors, like a key in a lock, to trigger a series of chemical reactions inside the cell. Receptors containing the common gamma chain are located on the surface of immature blood-forming cells in bone marrow. They partner with other proteins to direct blood-forming cells to form lymphocytes (a type of white blood cell). The receptors also regulate the growth and maturation of several subtypes of lymphocytes: T cells, B cells, and natural killer cells. These cells kill viruses, make antibodies, and help regulate the entire immune system.

<b>Purity:</b>	>95% as determined by SDS-PAGE.
<b>Endotoxin:</b>	Less than 1.0 EU per µg by the LAL method.
<b>Fragment region:</b>	IL2RG/CD132 (23-262)
<b>Source:</b>	HEK293
<b>Accession:</b>	P31785
<b>Predicted molecular mass:</b>	29.6 kD
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4, 5% Trehalose, 5% mannitol.
<b>Reconstitution:</b>	Reconstitute at 250 µg/ml in sterile water.
<b>Storage:</b>	Please avoid repeated freeze-thaw cycles. Samples are stable for up to twelve months from date of receipt at -20°C to -80°C. It is recommended that aliquot the reconstituted solution to minimize freeze-thaw cycles.

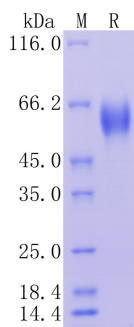
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**Fig1:** Protein on SDS-PAGE under reducing (R) condition.

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**Note:** All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE".

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