

# Active Recombinant Human IL2RB Protein (Met1-Asp239), His-tagged

Cat. No. IL2RB-420H Lot. No. (See product label)

## SPECIFICATION

**Product Overview** Recombinant Human IL2RB Protein (NP\_000869.1) (Met1-Asp239) was produced by Baculovirus-Insect Cells expression system. This protein was expressed with a polyhistidine tag at the C-terminus.

**Species** Human

**Source** Insect Cells

**ProteinLength** Met1-Asp239

**Description** Interleukin-2 receptor (IL-2R) also known as High affinity IL-2 receptor subunit beta, IL-2 receptor subunit beta, and IL-2RB, is involved in T cell-mediated immune responses. CD122/IL-2RB is present in 3 forms with respect to ability to bind interleukin 2. The low affinity form is a monomer of the alpha subunit and is not involved in signal transduction. The intermediate affinity form consists of an alpha/beta subunit heterodimer, while the high affinity form consists of an alpha/beta/gamma subunit heterotrimer. Both the intermediate and high affinity forms of CD122/IL-2RB are involved in receptor-mediated endocytosis and transduction of mitogenic signals from interleukin 2. CD122/IL-2RB expression was restricted to the earliest B22+ cells (CD43+CD24-; prepro B cells; fraction A) that proliferate vigorously to IL-2 in the absence of any stromal cells, but not to IL-15. The high-affinity form of this receptor is expressed on activated T lymphocytes, activated B lymphocytes, and activated macrophages. CD122/IL-2RB plays a role in regulating normal lymphocyte

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	development.
<b>Predicted N Terminal</b>	Ala 27
<b>Form</b>	Lyophilized from sterile 20 mM Tris, 150 mM NaCl, pH 8.0, 10 % glycerol. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.
<b>Bio-activity</b>	Measured by its ability to inhibit IL-15-dependent proliferation of MO7e human megakaryocytic leukemic cells in the presence of 4 ng/mL of recombinant human IL-15. The ED50 for this effect is typically 2-10 µg/mL.
<b>Molecular Mass</b>	The recombinant human IL2RB consists of 224 amino acids and predicts a molecular mass of 26 kDa.
<b>Endotoxin</b>	< 1.0 EU per µg protein as determined by the LAL method.
<b>Purity</b>	> 95 % as determined by SDS-PAGE.
<b>Stability</b>	Samples are stable for up to twelve months from date of receipt at -70 centigrade.
<b>Storage</b>	Store it under sterile conditions at -20 centigrade to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.
<b>Reconstitution</b>	It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 mg/ml. Centrifuge the vial at 4°C before opening to recover the entire contents.
<b>Shipping</b>	In general, recombinant proteins are provided as lyophilized powder which are shipped at ambient temperature.

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Bulk packages of recombinant proteins are provided as frozen liquid. They are shipped out with blue ice unless customers require otherwise.

## GENE INFORMATION

<b>Gene Name</b>	IL2RB interleukin 2 receptor, beta [ Homo sapiens ]
<b>Official Symbol</b>	IL2RB
<b>Synonyms</b>	IL2RB; CD122; p75; IL-2RB; CD122 antigen; IL-2R subunit beta; IL15RB; P70-75;
<b>Gene ID</b>	3560
<b>mRNA Refseq</b>	NM_000878
<b>Protein Refseq</b>	NP_000869
<b>MIM</b>	146710
<b>UniProt ID</b>	P14784

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