

CD122/IL2RB Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	IL-15Rβ;IL-2/15Rbeta;IL-2Rβ;interleukin 2 receptor, β;IL-15Rbeta;interleukin 2 receptor, beta; IL-2Rbeta;CD122;p70;IL15Rβ;IL-2/15Rβ;IL15Rbeta
Protein Construction:	A DNA sequence encoding the mouse IL2RB (NP_032394.1) (Met1-Glu240) was expressed with the Fc region of human IgG1 at the C-terminus. Predicted N terminal: Ala 27
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P16297
Molecular Weight:	51.76 kDa (predicted)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 90 % as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing PBS, pH 7.4. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Shipping:

In general, Lyophilized powders are shipping with blue ice.

Protein Background

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 concerning the 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 B220+ 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 development.

Reference

Foss F. (2006) Clinical experience with denileukin diftitox (ONTAK). *Semin Oncol.* 33(1 Suppl 3): 11-6.

Sprent J, et al. (2001) T cell death and memory. *Science.* 293(5528): 245-8.

Teshigawara K, et al. (1987) Interleukin 2 high-affinity receptor expression requires two distinct binding proteins. *J Exp Med.* 165 (1): 223-38.

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