

CD25/IL2R alpha Protein, Mouse, Recombinant (hFc)

General Information

Synonyms:	Ly-43;IL2r;interleukin 2 receptor, α ;CD25;interleukin 2 receptor, alpha;CD25/IL2R α
Protein Construction:	Glu22-Lys236
Species:	Mouse
Expression Host:	HEK293 Cells
Accession:	P01590
Molecular Weight:	51.6 kDa (Predicted); 60-90 kDa (Reducing conditions)

QC Testing

Biological Activity:	Loaded Rat IL-2-His(Cat#CS88) on HIS1K Biosensor, can bind Mouse IL-2RA-Fc(Cat#CK32) with an affinity constant of 0.63 nM as determined in BLI assay. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/ μ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 μ g/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

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.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

The interleukin 2 receptor alpha (IL2RA), also called CD25, is a type I transmembrane protein that presents on activated T cells, activated B cells, some thymocytes, myeloid precursors, and oligodendrocytes. IL2RA is a member of cytokine receptors family that utilizes the common gamma chain subunit (γ c). IL2RA is expressed in most B-cell neoplasms, some acute nonlymphocytic leukemias, neuroblastomas, and tumor infiltrating lymphocytes. IL2RA associates with IL2RB (CD122) to form a heterodimer that can act as a high-affinity receptor for IL-2.

Reference

Driesen J, et al. (2008) CD25 as an immune regulatory molecule expressed on myeloid dendritic cells. Immunobiology. 213(9-10): 849-58.

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Chistiakov DA, et al. (2008) The crucial role of IL-2/IL-2RA-mediated immune regulation in the pathogenesis of type 1 diabetes, an evidence coming from genetic and animal model studies. Immunol Lett. 118(1): 1-5.

Bien E, et al. (2008) Serum soluble interleukin 2 receptor alpha in human cancer of adults and children: a review. Biomarkers. 13(1): 1-26.

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