

CD131 Protein, Human, Recombinant (His) V2

General Information

Synonyms:	CD131;IL5RB;SMDP5;colony stimulating factor 2 receptor, β , low-affinity (granulocyte-macrophage);IL3RB;CDw131;colony stimulating factor 2 receptor, beta, low-affinity (granulocyte-macrophage)
Protein Construction:	Thr17-Trp443
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P32927-1
Molecular Weight:	50.30 kDa (Predicted); 55-70 kDa (Due to glycosylation)

QC Testing

Biological Activity:	Human IL-3 R Beta, His Tag immobilized on CM5 Chip can bind Human GM-CSF, No Tag with an affinity constant of 4.13 μM as determined in SPR assay (Biacore T200) (QC Test).
Purity:	> 95% as determined by Bis-Tris PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/ μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from 0.22 μm filtered solution in PBS (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 $\mu\text{g}/\text{mL}$. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

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

Interleukin-3 receptor (IL-3R) is a heterodimer that comprises an IL-3 specific alpha chain (IL-3R alpha) and a common beta chain (beta C) that is shared with the receptors for granulocyte-macrophage colony-stimulating factor (GM-CSF) and IL-5. The beta c subunit does not bind any cytokine by itself but is involved in the formation of high-affinity functional receptors for IL-5 and GM-CSF. These receptors belong to the cytokine receptor

superfamily, but they are structurally and functionally more related to each other and thus make up a distinct subfamily.

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