

IL12RB1 Protein, Human, Recombinant (hFc)

General Information

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| Synonyms: | IL-12R- β 1;IL-12R-BETA1;IL-12 receptor subunit beta-1;IL12RB;IL-12R subunit beta-1;CD212 antigen;IL-12 receptor subunit β -1;interleukin-12 receptor β -1 chain;interleukin-12 receptor beta-1 chain;IL-12 receptor β component;IL12RB1;CD212;interleukin-12 receptor subunit beta-1;interleukin-12 receptor subunit β -1;IL12R;IL-12R subunit β -1;IL-12R- β -1;IL-12RB1;IL-12R-beta-1;IL-12 receptor beta component |
| Protein Construction: | Cys24-Glu540 |
| Species: | Human |
| Expression Host: | HEK293 Cells |
| Accession: | P42701-1 |
| Molecular Weight: | 83.85 kDa (predicted); 95-115 kDa (reducing condition, due to glycosylation) |
| AA Sequence: | Cys24-Glu540 |

QC Testing

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| Biological Activity: | Immobilized Human IL-12B, His Tag at 5 μ g/ml (100 μ l/well) on the plate. Dose response curve for Human IL-12 R beta 1, hFc Tag with the EC50 of 0.11 μ g/ml determined by ELISA. |
| Purity: | > 95% as determined by Bis-Tris PAGE |
| Endotoxin: | < 1 EU/ μ g as determined by LAL test. |
| Formulation: | Lyophilized from 0.22 μ m 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 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:

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

Interleukin12 receptor subunit beta 1 (IL12RB1) is a type I transmembrane protein that belongs to the hemopoietin

receptor superfamily. IL12RB1 can spontaneously form homodimers and -oligomers, which are able to bind IL12 with only low affinity. IL12 high affinity receptor complex is composed of two subunits designated IL12RB1 and IL12RB2. While IL12RB1 interacts with the IL-12p40 subunit, IL-12p35 is mainly connecting with IL12RB2. This receptor chain is also responsible for transmitting the IL12 signal into the cell. IL12RB1, to the contrary, is also part of the IL23R, where it interacts with the p40 subunit of IL23. IL12RB1 is expressed in activated T cells, NK cells and B cells.

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