

IL4R

Recombinant Human IL-4 Receptor alpha, soluble

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| Catalog No. | CRI181B | Quantity: | 15 µg |
| Alternate Names: | Interleukin-4 receptor subunit alpha, IL-4RA, CD124 | | |
| Description: | IL-4 can signal through type I and type II receptor complexes, which share a common gamma chain. The type I receptor contains, in addition to the gamma chain, an IL-4R alpha subunit, whereas the type II receptor contains the IL-13R alpha. The secreted extracellular domain of IL-4R alpha, called sIL-4R alpha, binds IL-4 and antagonizes its activity. It plays an important role in regulating the differentiation of naïve CD4+ T cells and class switching to IgG1 and IgE. | | |
| UniProt ID: | P24394 | | |
| Gene ID: | 3566 | | |
| Source: | CHO cells | | |
| Molecular Weight: | 23.9 kDa (209 aa) predicted 50-65 kDa, apparent, under reducing conditions, due to glycosylation | | |
| Formulation: | Lyophilized | | |
| Purity: | >95% by SDS-PAGE and HPLC analysis | | |
| Endotoxin Level: | < 1 EU/ µg | | |
| Biological Activity: | ED ₅₀ < 5.0 ng/ml, determined by inhibition of IL-4 dependent proliferation of human TF-1 cell (in the presence of 0.5 ng/ml of IL-4) | | |
| Specific Activity: | > 2 x 10 ⁵ units/mg. | | |
| Amino Acid Sequence: | GNMKVLQEPT CVSDYMSIST CEWKMNPTN CSTELRLLYQ LVFLLSEAHT CIPENNGGAG CVCHLLMDDV VSADNYTLDL WAGQQLLWKG SFKPSEHVKP RAPGNLTVHT NVSDTLLLTW SNPYPPDNYL YNHLTYAVNI WSENDPADFR IYNVTYLEPS LRIAASLTKS GISYRARVRA WAQCYNTTWS EWSPSTKWHN SYREPFEQH | | |
| Reconstitution: | Centrifuge vial prior to opening. Add PBS or medium to the vial to fully solubilize the protein to a concentration ≥ 100 µg/ml. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein such as 0.1% BSA and store in working aliquots at -20°C to -80°C. | | |
| Storage & Stability: | Lyophilized protein is stable for 1 year at -20°C to -80°C. Store reconstituted protein in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles. | | |

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