A Reliable Research Partner in Life Science and Medicine

Recombinant Human IL4RA/CD124 Protein (His Tag)

Catalog No. PKSH032647

Note: Centrifuge before opening to ensure complete recovery of vial contents.

Description

Synonyms Interleukin-4 receptor subunit alpha;IL-4 receptor subunit alpha;IL-4R subunit

alpha;IL-4R-alpha;IL-4RA;CD124;IL-4-binding protein;IL4-BP;IL4R;IL4RA

Species Human

Expression HostHEK293 CellsSequenceMet26-His232AccessionP24394

Calculated Molecular Weight 24.4 kDa
Observed molecular weight 35-60 kDa
Tag C-His

Bioactivity Measured by its ability to inhibit IL-4-dependent proliferation of TF-1 human

erythroleukemic cells. The ED50 for this effect is 5-20 ng/ml.

Properties

Purity > 95 % as determined by reducing SDS-PAGE.

Endotoxin < 1.0 EU per µg of the protein as determined by the LAL method.

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to

-80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots

of reconstituted samples are stable at < -20°C for 3 months.

Shipping This product is provided as lyophilized powder which is shipped with ice packs.

Formulation Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.

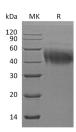
Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as

protectants before lyophilization.

Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data



> 95 % as determined by reducing SDS-PAGE.

Background

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017

Web: www.elabscience.com

Email: techsupport@elabscience.com

Elabscience Bionovation Inc.



A Reliable Research Partner in Life Science and Medicine

Interleukin 4 Receptor alpha (IL4-Ra) is a widely expressed 140 kDa transmembrane glycoprotein in the class I cytokine receptor family. Mature human IL4-Ra consists of a 207 amino acid (aa) extracellular domain (ECD) that contains a cytokine binding region and one fibronectin type III domain; a 24 aa transmembrane segment; and a 569 aa cytoplasmic domain that contains one Box 1 motif and one ITIM motif. IL4-Ra plays an important role in Th2-biased immune responses; alternative macrophage activation; mucosal immunity; allergic inflammation; tumor progression; and atherogenesis. Soluble forms of IL4-Ra; generated by alternate splicing or proteolysis; retain ligand binding properties and inhibit IL-4 bioactivity. IL4-Ra is a component of two distinct receptor complexes and shows species selectivity between human and mouse. It can associate with the common gamma chain (γc) to form the IL-4 responsive type I receptor in which ye increases the affinity for IL-4 and enables signaling. It can alternatively associate with IL13-Ra1 to form the type II receptor which is responsive to both IL-4 and IL-13. The use of shared receptor components contributes to the overlapping biological effects of IL-4 and IL-13 as well as other cytokines that utilize γc .

For Research Use Only

Toll-free: 1-888-852-8623 Tel: 1-832-243-6086 Fax: 1-832-243-6017 Email: techsupport@elabscience.com

Web: www.elabscience.com