

Recombinant Human IL4RA/CD124 Protein (His Tag)

Catalog Number: PKSH032647

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

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Species Human

Source HEK293 Cells-derived Human IL4RA; CD124 protein Met26-His232, with an C-terminal

His

Calculated MW 24.4 kDa
Observed MW 35-60 kDa
Accession P24394

Bio-activity 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 $< 1.0 \text{ EU per } \mu\text{g of the protein as determined by the LAL method.}$

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.

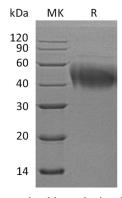
Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants

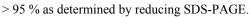
before lyophilization.

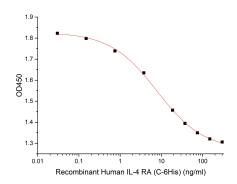
Please refer to the specific buffer information in the printed manual.

Reconstitution Please refer to the printed manual for detailed information.

Data





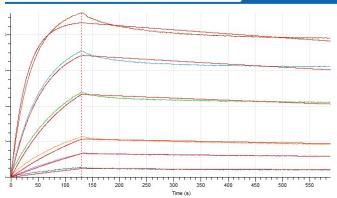


Measured by its ability to inhibit IL-4-dependent proliferation of TF- $\,$ 1 human erythroleukemic cells.The ED $\,$ 50 for this effect is 5-20 ng/ml.

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Loaded Dupilumab on Pro-A Biosensor, can bind Recombinant Human IL-4 RA (C-6His) (PKSH032647) with an affinity constant of 1.78 nM as determined in BLI assay.

Background

Interleukin 4 Receptor alpha (II.4-Ra) is a widely expressed 140 kDa transmembrane glycoprotein in the class I cytokine receptor family. Mature human II.4-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. II.4-Ra plays an important role in Th2-biased immune responses; alternative macrophage activation; mucosal immunity; allergic inflammation; tumor progression; and atherogenesis. Soluble forms of II.4-Ra; generated by alternate splicing or proteolysis; retain ligand binding properties and inhibit II.-4 bioactivity. II.4-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 (γ c) to form the II.-4 responsive type I receptor in which γ c increases the affinity for II.-4 and enables signaling. It can alternatively associate with II.13-Ra1 to form the type II receptor which is responsive to both II.-4 and II.-13. The use of shared receptor components contributes to the overlapping biological effects of II.-4 and II.-13 as well as other cytokines that utilize γ c.