

Datasheet for ABIN2181320

**IL4 Receptor Protein (AA 26-232) (His tag)**[Go to Product page](#)**2** Images

## Overview

Quantity:	50 µg
Target:	IL4 Receptor (IL4R)
Protein Characteristics:	AA 26-232
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL4 Receptor protein is labelled with His tag.

## Product Details

Sequence:	AA 26-232
Characteristics:	This protein carries a polyhistidine tag at the C-terminus. The protein has a calculated MW of 24.5 kDa. The protein migrates as 35-45 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.
Purity:	>95 % as determined by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

## Target Details

Target:	IL4 Receptor (IL4R)
---------	---------------------

## Target Details

---

Alternative Name: [IL-4 R alpha \(IL4R Products\)](#)

Background: IL-4 is a pleiotropic cytokine produced by activated Th2 cells and mast cells, and plays a pivotal role in immune responses. The effects of IL-4 are mediated after binding to high affinity receptor complexes present on hematopoietic as well as non-hematopoietic cells. Hematopoietic cellular responses to IL-4 are mediated by a high affinity receptor complex comprised of the 140 kDa IL4R $\alpha$  (CD124) subunit and the 70 kDa common cytokine  $\gamma$ c chain (CD132). Interleukin 4 Receptor (IL4R) also known as CD124, IL4R $\alpha$  and BSF receptor, is a type I cytokine receptor produced by activated Th2 cells and mast cells, and plays an important role in Th2-biased immune responses, alternative macrophage activation, mucosal immunity, allergic inflammation, tumor progression, and atherogenesis. A soluble form of the encoded IL4R protein can be produced by an alternate splice variant or by proteolysis of the membrane-bound protein, and this soluble form can inhibit IL4-mediated cell proliferation and IL5 upregulation by T-cells. IL4R can alternatively associate with IL-13Ra1 to form the type II receptor which is responsive to both IL-4 and IL-13. Interleukin-4 receptor has been shown to interact with SHC1.

Molecular Weight: 24.6 kDa

NCBI Accession: [NP\\_000409](#)

Pathways: [JAK-STAT Signaling](#), [Positive Regulation of Immune Effector Process](#)

## Application Details

---

Restrictions: For Research Use only

## Handling

---

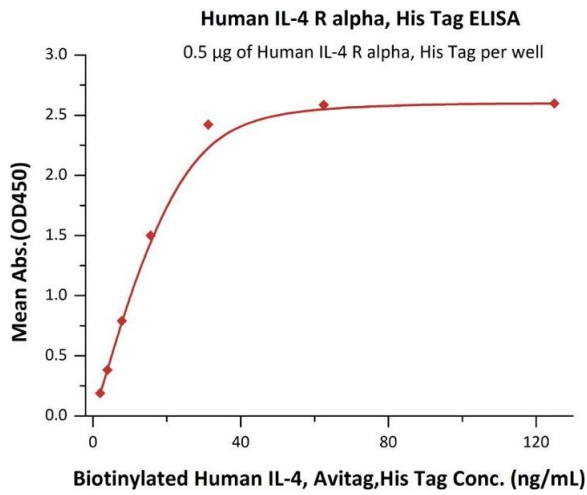
Format: Lyophilized

Buffer: PBS, pH 7.4

Handling Advice: Please avoid repeated freeze-thaw cycles.

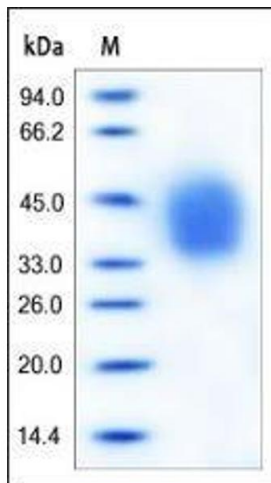
Storage: -20 °C

Storage Comment: No activity loss was observed after storage at: In lyophilized state for 1 year (4 °C-8 °C), After reconstitution under sterile conditions for 1 month (4 °C-8 °C) or 3 months (-20 °C to -70 °C).



### ELISA

**Image 1.** Immobilized Human IL-4 R alpha, His Tag (ABIN2181320,ABIN2181319) at 5 µg/mL (100 µL/well) can bind Biotinylated Human IL-4, Avitag,His Tag (ABIN3137668,ABIN5674029) with a linear range of 2-16 ng/mL (QC tested).



### SDS-PAGE

**Image 2.**