

sIL-4Ralpha Human HEK293 cells

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: HEK293 cells	RBG10004SRA003	(3 µg)
Species: Human	RBG10004SRA015	(15 µg)
Other names: soluble IL-4 receptor alpha, CD124	RBG10004SRA100	(100 µg)

Description

IL-4 can signal through type I and type II receptor complexes, which share a common γ chain (γ_c). The type I receptor contains in addition to the γ chain an IL-4Ralpha subunit, whereas the type II receptor contains the IL-13Ralpha. The secreted extracellular domain of IL-4Ralpha, called sIL-4Ralpha, binds IL-4 and antagonizes its activity. It plays an important role in regulating the differentiation of naive CD4 T cells and class switching to IgG1 and IgE. Recombinant Human sIL-4Ralpha is a 209 amino acid protein that corresponds to the entire extracellular domain of IL-4Ralpha.

Research topic

Immune Response, Infection and Inflammation, Neural tissue markers, Transplantation

Amino Acid Sequence

GNMKVLQEPT CVSDYMSIST CEWKMGPTN CSTEELRLLYQ LVFLLSEAHY CIPENNGGAG CVCHLLMDDV VSADNYTLDL
WAGQQLLWKG SFKPSEHVKP RAPGNLTVHT NVSDTLTLLTW SNPYPPDNYL YNHLTYAVNI WSENDPADFR IYNVTYLEPS
LRIIAASTLKS GISYRARVRA WAQCYNTTWS EWSPSTKWHN SYREPFEQH

Source

HEK293 cells

Purity

98%

Biological Activity

The ED₅₀ was determined by its ability to inhibit the IL-4 dependent proliferation of human TF-1 cells is \approx 5.0 ng/ml (in the presence of 0.5 ng/ml of IL-4), corresponding to a specific activity of \approx 2×10^5 units/mg.

Endotoxin

Endotoxin level is <0.1 ng/ μ g of protein (<1 EU/ μ g).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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