

Recombinant Human soluble IL-4 Receptor- α

CATALOG #:	4729-15
AMOUNT:	15 μ g
LOT #:	_____
SOURCE:	A293 cells
PURITY:	>97% by SDS-PAGE and HPLC analysis Endotoxin level is <0.1 ng per μ g of sIL-4R α
FORMULATION:	Sterile filtered and lyophilized with no additives

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 μ g/ μ l. The solution can then be diluted into other aqueous buffers and stored at 4°C for 1 week or –20°C for future use.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted protein should be stored at working aliquots at -20°C.

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 naive CD4+ T cells and class switching to IgG1 and IgE. Recombinant human sIL-4R alpha is a 207 amino acid protein which corresponds to the entire extracellular domain of IL-4R alpha.

BIOLOGICAL ACTIVITY:

The ED₅₀ was determined by its ability to inhibit the IL-4 dependent proliferation of human TF-1 cells is < 5.0 ng/ml (in the presence of 0.5 ng/ml of IL-4), corresponding to a specific activity of > 2 x 10⁵ units/mg.

FOR RESEARCH USE ONLY! Not to be used in human.

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- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

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