

IL-4 R α , Human CellExp™, Human Recombinant

CATALOG #:	7101-10	10 μ g
	7101-50	50 μ g
ALTERNATE NAMES:	soluble IL-4 receptor alpha, CD124	
SOURCE:	HEK293 cells	
PURITY:	\geq 98% by SDS-PAGE gel and HPLC analyses	
MOL. WEIGHT:	~24 kDa	
ENDOTOXIN LEVEL:	< 0.1 ng/ μ g of protein (<1EU/ μ g).	
FORM:	Lyophilized	
FORMULATION:	Sterile filtered through a 0.2 micron filter. Lyophilized from 1x PBS pH 7.0.	
STORAGE CONDITIONS:	Store at -20°C. After reconstitution, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.	

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

DESCRIPTION:

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

BIOLOGICAL ACTIVITY:

Determined by its ability to inhibit the IL-4-dependent proliferation of human TF-1 cells. The expected ED₅₀ is \leq 5.0 ng/ml (in the presence of 0.5 ng/ml of hIL-4), corresponding to a specific activity of $\geq 2 \times 10^5$ units/mg.

AMINO ACID SEQUENCE:

GNMKVLQEPT CVSDYMSIST CEWKMGPTN CSTEELRLLYQ LVFLLSEAH T CIPENNGGAG CVCHLLMDDV VSADNYTLDL WAGQQLLWKG SFKPSEHVKP RAPGNLTVHT NVSDTLTLLTW SNPYPPDNYL YNHLTYAVNI WSENDPADFR IYNVTYLEPS LRIAAS TLKS GISYRARVRA WAQCYN TTWS EWSPSTKWHN SYREPFEQH

RELATED PRODUCTS:

- Human Cell^{EXP} Human Recombinant IL-4 (Cat # 6463-10, -50)
- IL-4, human recombinant (Cat # 4137-10, -50, -1000)
- IL-4, murine recombinant (Cat # 4138-10, -1000)
- IL-4, rat recombinant (Cat # 4139-10, -1000)
- IL-4 Antibody (Cat # 5137-200)

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