

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant IL-4 R, Human

Catalog Number: BK0316-10 μ g

Source: HEK 293

Quantity: 10 μ g

Description:

Interleukin-4 Receptor, also known as IL-4RA and CD124, is a transmembrane glycoprotein belonging to the class I receptor family. It is highly expressed by activated T-cells. IL-4RA couples with γ chain to form the type I receptor for IL-4. The extracellular domain of IL-4RA binds to IL-4 and antagonizes its activity. IL-4RA plays an important role in Th2 cell differentiation, Ig class switching and alternative macrophage activation. It has also been implicated in allergic inflammation, tumor progression and atherogenesis.

Molecular Weight:

40-45 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 70 ng/ml, measured in a neutralization assay using TF-1 cells in the presence of 0.5ng/ml h-IL-4.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

GNMKVLQEPTCVSDYMSISTCEWKMNGPT-
NCSTELRLLYQLVFLLEAHTCIPEN-
NGGAGCVCHLLMDDVVSADNY-
TLDLWAGQQLLWKGSEHVKPRAPGN-
LTVHTNVSDTLTLLTWSNPYPPDNYLYNHL-
TYAVNIWSENDPADFRIYNVITYLEPSLRI-
AASTLKSGISYRAR-
VRAWAQCYNNTTWSEWSPSTKWHNSYREPFEQH

Endotoxin:

< 0.2 EU/ μ g, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Storage:

Lyophilized recombinant Human Interleukin-4 Receptor remains stable up to 6 months at -80 $^{\circ}$ C from date of receipt. Upon reconstitution, Human Interleukin-4 Receptor should be stable up to 1 week at 4 $^{\circ}$ C or up to 2 months at -20 $^{\circ}$ C.

Usage:

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