PRODUCT DATA SHEET



Bioworld Technology,Inc.

Recombinant IL-2 R α, His, Human

Catalog Number: BK0314-50µg Source: HEK 293 Quantity: 50µg

Description:

Interleukin-2 receptor (IL-2R) is a heterotrimeric protein expressed on the surface of certain immune cells, such as lymphocytes, that binds and responds to the cytokine IL-2. The IL-2R is made up of 3 subunits alpha (α), beta (β) and gamma (γ). The α and β chains are involved in binding IL-2, while signal transduction following cytokine interaction is carried out by the γ -chain, along with the β subunit. The β and γ chains of the IL-2R are members of the type I cytokine receptor family. IL-2R has a high binding affinity to IL-2 and is expressed by antigen-activated T lymphocytes (T cells). IL-2 Ra is also known as CD25, p55, and Tac (activated T cell) antigen. Recombinant Human Interleukin-2 Receptor α (IL-2 R α), His produced in HEK 293 cells is a polypeptide chain containing 205 amino acids. A fully biologically active molecule, rhIL-2 R a has a molecular mass of 42 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

42 kDa, observed by reducing SDS-PAGE.

Purity:

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

Biological Activity:

Determined by its ability to increase the proliferation effect of IL-2 in murine CTLL-2 cells. In the presence of 1 ng/ml of recombinant IL-2, ED50 for this effect is $< 1.5 \mu g/ml$.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) pow-

der.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

HHHHHHHELCDDDPPEIPHATFKAMAYKEGTMLNCECKRGFRRIKSGSLYMLCTGNSSHSSWDNQCQCTSSATRNTTKQVTPQPEEQKERKTTEMQSPMQPVDQASLPGHCREPPPWENEATERIYHFVVGQMVYYQCVQGYRALHRGPAESVCKMTHGKTRWTQPQLICTGEMETSQFPGEEKPQASPEGRPESETSC

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant Human Interleukin-2 Receptor α remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Human Interleukin-2 Receptor α should be stable up to 1 week at 4°C or up to 3 months at -20 °C.

Usage

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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