

Recombinant Rat Interleukin-2, Liquid (rRtIL-2, Liquid)

ChemWhat Technical Data Sheet (TDS)

Catalog Number: 141-02L

Source: Escherichia coli.

Molecular Weight: Approximately 15.5 kDa, a single non-glycosylated polypeptide chain containing 135 amino acids.

Quantity: 5μg/20μg/1000μg

AA Sequence: APTSSPAKET QQHLEQLLLD LQVLLRGIDN YKNLKLPMML TFKFYLPKQA TELKHLQCLE

NELGALQRVL DLTQSKSFHL EDAGNFISNI RVTVVKLKGS ENKFECQFDD EPATVVEFLR

RWIAICQSII STMTQ

Purity: > 97 % by SDS-PAGE and HPLC analyses.

Biological Activity: Fully biologically active when compared to standard. The ED₅₀ as determined by a cell proliferation

assay using murine CTLL-2 cells is less than 0.2 ng/ml, corresponding to a specific activity of > 5.0 \times

106 IU/mg.

Physical Appearance: Sterile Colorless liquid.

Formulation: A 0.2 µm filtered concentrated sterile solution in 10 mM sodium citrate, pH 4.0, 30 % glycerol.

Endotoxin: Less than 1 EU/μg of rRtIL-2, Liquid as determined by LAL method.

Stability & Storage: Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

6 months from date of receipt, -20 to -70 °C as supplied.

3 months, -20 to -70 °C under sterile conditions after opening.

Usage: ChemWhat Limited in UK offers this branded product for research, development or further

evaluation purposes. NOT FOR HUMAN USE.

Rat Interleukin-2

IL-2 is a powerful immunoregulatory lymphokine produced by T-cells in response to antigenic or mitogenic stimulation. It is expressed by CD4+ and CD8+ T cells, $\gamma\delta$ T cells, B cells, dendritic cells, and eosinophils. IL-2/IL-2R signaling is required for T-cell proliferation and other fundamental functions which are essential for the immune response. The receptor for IL-2 consists of three subunits (55 kDa IL2R α , 75 kDa IL2R β , 64 kDa common gamma chain γ c/IL2R γ) that are present on the cell surface in varying preformed complexes. Recombinant rat IL-2 is a 15.3 kDa protein containing 134 amino acid residues and it shares about 82 %, 66 %, 66 %, 60 % and 54 % amino acid sequence identity with mouse, human, rhesus macaque, pig and equus caballus IL-2, respectively.

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