

Recombinant Human Interleukin-2 Biotin conjugated (rh IL-2 Biotin)

Introduction: IL-2 is a secreted cytokine that is important for the proliferation of T and B lymphocytes. The receptor of this cytokine is a heterotrimeric protein complex whose gamma chain is also shared by Interleukin 4 and Interleukin 7. The expression of this gene in mature thymocytes is monoallelic which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease which suggests an essential role of this gene in the immune response to antigenic stimuli.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: 0.22 µm filtered solution in 25 mM sodium phosphate, 200 mM NaCl, pH 7.5, lyophilised

Solubility: Vial should be centrifuged before opening! Reconstitute in sterile endotoxin free water to a concentration not less than 100 µg/ml.

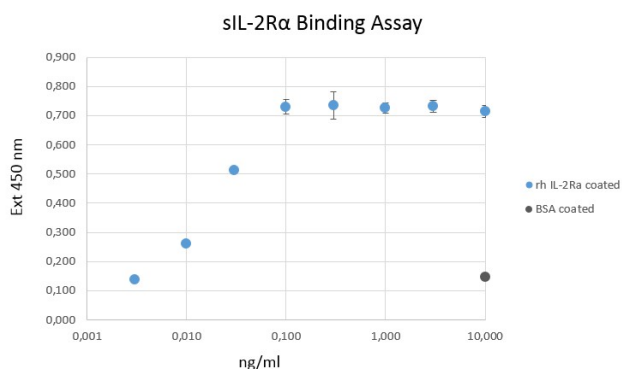
Stability: Lyophilized rh IL-2 Biotin although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IL-2 Biotin should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE Silver stain.

Endotoxicity: The endotoxin level is less than 1 EU / µg determined by LAL method.

Amino acid Sequence: MAPTSSSTKK TQLQLEHLL DLQMILNGIN NYKNPKLTRM LTFKFYMPKK ATELKHLQCL EEELKPLEEV LNLAQSKNFH LRPRDLISNI NVIVLELKGS ETTFMCEYAD ETATIVEFLN RWITFCQSII STLT

Biological Activity: Measured by functional ELISA: rh IL-2-BIOTIN binds to rh sIL-2Rα (1 µg/ml) coated on ELISA plate. Half maximum binding signal is produced at a concentration of < 30 ng/ml



<i>small</i>	2 µg	Cat.N°	1134B0022
<i>medium</i>	10 µg	Cat.N°	1134B0023
<i>large</i>	50 µg	Cat.N°	1134B0025

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