

## IL 2 Equine

**Description:** Recombinant Equine Interleukin-2 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 129 amino acids (with a substitution of S for C - at position 141 compared with the wild type IL2) and having a molecular mass of 14.9kDa. The IL-2 Equine is purified by proprietary chromatographic techniques.

**Catalog #:** CYP5-745

For research use only.

**Synonyms:** Interleukin-2, IL-2, T-cell growth factor, TCGF, IL2.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** APTSSSKRET QQQLKQLQMD LKLLLEGVNN NKNPKLSKML  
TFKINMPKKA TELKHLQCLE EELKPLEEML KNFLSKDIKE LMSNINVTVL GLKGSETRFT  
CEYDDETGTI VEFLNKWITF SQSIFSTMT.

**Purity:** Greater than 97.0% as determined by SDS-PAGE and HPLC analyses.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized Interleukin-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL2 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.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized IL2 in sterile 18M-cm H2O not less than 100

**Introduction:**

IL2 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 (IL4) and interleukin 7 (IL7). 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.

**Biological Activity:**

The ED50 as determined by a cell proliferation assay using murine CTLL-2 cells is less than 1.0

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