



## Interleukin-2, His Tag, mouse recombinant (rmIL-2-His)

**Catalog No:** 97226  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Interleukin-2, T-cell growth factor (TCGF), Aldesleukin, Lymphokine, IL-2, IL2

### Background

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.

### Description

Interleukin-2 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 170 amino acids (21-169) and having a molecular mass of 19.5 kDa. Mouse IL-2 is fused to a 20 amino acid His Tag at N-terminus and purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered colorless clear solution.

### Formulation

The mouse IL2 protein (0.5 mg/ml) is supplied in phosphate buffered saline (pH 7.4) 0.1 M NaCl, and 20% glycerol.

### Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

### Purity

Greater than 90.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MGSSHHHHHH SGLVPRGSH MAPTSSSTSS STAEAAQQQQQ QQQQQQHLE QLLMDLQELL SRMENYRNLK LPRMLTFKFY  
LPKQATELKD LQCLEDELGP LRHVLDLTQS KSFQLEDAEN FISNIRVTVV KLKGSNDTFE CQFDDESATV VDFLRRWIAF  
CQSVISTSPQ

### Activity

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is <2.5 ng/ml, corresponding to a specific activity of less than 400,000 units/mg.

### Usage

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