

## 32-6418: IL2 Canine, His

**Application :** Functional Assay

**Alternative Name :** Interleukin-2, IL-2, T-cell growth factor, TCGF.

### Description

Source: Escherichia Coli.

Sterile filtered colorless solution.

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.

IL2 Canine Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 160 amino acids (21-155 a.a) and having a molecular mass of 18.1 kDa. IL2 Canine is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

### Product Info

**Amount :** 1 µg / 5 µg

**Purification :** Greater than 95.0% as determined by SDS-PAGE.

**Content :** IL2 Canine protein solution (0.5 mg/ml) contains Phosphate buffered saline (pH7.4).

**Storage condition :** 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.

**Amino Acid :** MGSSHHHHHH SSGLVPRGSH MGSHMAPITS SSTKETEQQM EQLLLDLQLL LNGVNNYENP  
QLSRMLTFKF YTPKKATEFT HLQCLAEELK NLEEVGLPQ SKNVHLTDTK ELISNMNVTL  
LKLKGSETSY NCEYDDETAT ITEFLNKWIT FSQSIFSTLT.

### Application Note

The ED50 measured in a cell proliferation assay using CTLL-2 mouse cytotoxic T cells. is < 0.3 ng/ml.