

32-6420: IL2 Feline

Application : Functional Assay

Alternative Name : Interleukin-2, IL-2, T-cell growth factor, TCGF, IL2.

Description

Source: E.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 Feline Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 157 amino acids (21-154 a.a) and having a molecular mass of 17.8kDa. IL2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Product Info

Amount : 1 µg / 5 µg

Purification : Greater than 95% as determined by SDS-PAGE.

Content : IL2 protein solution (0.25mg/ml) containing 20mM Tris-HCl(pH8.0), 0.15M NaCl and 30% glycerol.

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Amino Acid : MGSSHHHHHH SSGLVPRGSH MGSAPASSST KETQQLEQL LLDLRLLLNG VNNPENPKLS RMLTFKFYVP
KKATELTHLQ CLVEELKPLE EVLYLAQSKN FHLNHIKELM SNINVTVLKL KGSETRFTCN YDDETATIVE
FLNKWITFCQ SIFSTLT.

Application Note

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is less or equal to 0.3ng/ml.