

32-6419: IL-2 Canine

Application : Functional Assay

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

Description

Source: Escherichia Coli.

Sterile Filtered White lyophilized (freeze-dried) powder.

IL2 is a secreted cytokine that is essential 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 IL2 in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the exact expression of a single gene.

Interleukin-2 Canine Recombinant produced in E. coli is a non-glycosylated monomer chain containing 136 amino acids and having a molecular mass of 15.6kDa. IL-2 is purified by proprietary chromatographic techniques.

Product Info

Amount : 50 µg / 100 µg

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

Content : The protein was lyophilized from a sterile (0.2µm) filtered solution containing 20 mM sodium bicarbonate, pH 8.5.

It is recommended to reconstitute the lyophilized IL-2 in Sterile 10 mM sodium bicarbonate, pH 8.5 at 0.1 mg/mL, which can then be further diluted to other aqueous solutions.

Storage condition : Lyophilized IL-2 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-2 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Amino Acid : MAPITSSSTK ETEQQMEQLL LDLQLLNGV NNYENPQLSR MLTFKFYTPK KATEFTHLQC LAEELKNLEE VLGLPQSKNV HLTDTKELIS NMNVTLKLLK GSETSYNCEY DDETATITEF LNKWITFSQS IFSTLT.

Application Note

The ED50, as determined by CTLL-2 cell proliferation is <5ng/ml corresponding to a specific activity which is $\geq 2.0 \times 10^5$ units/mg.