

Active Recombinant Canine IL2 Protein

Cat. No. IL2-154C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Canine IL2 Protein without tag was expressed in E. coli.
Species	Canine
Source	E.coli
Description	Interleukin 2 (IL-2) is an immunomodulatory cytokine that is produced by lymphocytes. IL-2 signals through the IL-2R receptor to induce activated T cell proliferation and promote T cell differentiation. IL-2 also stimulates the proliferation and differentiation of B cells, natural killer cells, monocytes, and macrophages.
Bio-activity	CTLL-2 cell proliferation, ED50≤5 ng/mL
Molecular Mass	Predicted MW: Monomer, 15.6 kDa (with 136 amino acids)
AA Sequence	MAPITSSSTKETEQQMEQQLLLDLQLLNGVNNYENPQLSRMLTFKFYTPKKATEFTH LQCLAEELKNLEEVGLPQSKNVHLTDTKELISNMNVTLCLKGSETSYNCEYDDETA TITEFLNKWITFSQSIFSTLT
Endotoxin	≤1 EUs/μg, Kinetic LAL (50% confidence)
Purity	≥95%, Reducing and Non-Reducing SDS PAGE
Stability	12 months from date of receipt when stored at -20 to -80 centigrade as supplied. 1 month when stored at 4 centigrade after reconstituting as directed.

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	3 months when stored at -20 to -80 centigrade after reconstituting as directed.
Storage	Storage Prior to Reconstitution: -20 centigrade
Storage Buffer	Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium bicarbonate, pH 8.5
Reconstitution	Sterile 10 mM sodium bicarbonate, pH 8.5 at 0.1 mg/mL
Shipping	Room temperature
Instructions	Centrifuge vial before opening. Suspend the product by gently pipetting the above recommended solution down the sides of the vial. DO NOT VORTEX. Allow several minutes for complete reconstitution. For prolonged storage, dilute to working aliquots in a 0.1% BSA solution, store at -80 centigrade and avoid repeat freeze thaws.

GENE INFORMATION

Gene Name	IL2 interleukin 2 [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	IL2
Synonyms	IL2; interleukin 2; interleukin-2; IL-2; TCGF; T-cell growth factor;
Gene ID	403989
mRNA Refseq	NM_001003305
Protein Refseq	NP_001003305
UniProt ID	Q29416

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