

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	MAPITSSSTKETEQQMEQLLLDLQLLLNGVNNYENPQLSRMLTFKFYTPKKATEFTH LQCLAEELKNLEEVLGLPQSKNVHLTDTKELISNMNVTLKLGSETSYNCEYDDETA 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 [*Canis lupus familiaris* (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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