

# Product Data Sheet



Recombinant Canine IL-2

Catalog Number: 400-11

## Product Description

**Alternate Names:** T cell growth factor, TCGF, Aldesleukin

**Accession Number:** Q29416

**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.

**Source:** Genetically modified *E.coli*.

**Predicted MW:** Monomer, 15.6 kDa (with 136 amino acids)

**AA Sequence:** MAPITSSSTK ETEQQMEQLL LDLQLLNGV NNYENPQLSR MLTFKFYTPK KATEFTHLQC LAEELKNLEE VLGLPQSKNV HLTDTKELIS NMNVTLLKLG GSETSYNCEY DDETATITEF LNKWITFSQS IFSTLT

**Formulation:** Lyophilized from a sterile (0.2 micron) filtered aqueous solution containing 20 mM sodium bicarbonate, pH 8.5

## Product Specifications\*

\*Lot-specific values for the following specifications are supplied with each production lot on its corresponding COA.

Specification	Method of Determination	Acceptance Criteria
Purity	Reducing and Non-Reducing SDS-PAGE	≥95%
Endotoxin	Kinetic LAL (50% confidence)	≤ 1 EUs/μg
Biological Activity	CTLL-2 cell proliferation	ED50 ≤ 5 ng/mL (≥ 2.0 x 10 <sup>5</sup> units/mg)

## Product Preparation and Storage

**Country of Origin:** USA      **Shipping:** Room temperature      **Storage Prior to Reconstitution:** -20°C

**Product Reconstitution:** Sterile 10 mM sodium bicarbonate, pH 8.5 at 0.1 mg/mL

**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°C and avoid repeat freeze thaws.

### Expiration Date:

12 months from date of receipt when stored at -20°C to -80°C as supplied.

1 month when stored at 4°C after reconstituting as directed.

3 months when stored at -20°C to -80°C after reconstituting as directed.

**THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!**