GFC11AF Recombinant Canine IL-2 (Animal-Free)

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.

This product is produced with no animal derived raw products. All processing and handling employs animal free equipment and animal free protocols.

Length	136 aa
Molecular weight	15.6 kDa
Source	*E. coli*
Accession number	Q29416
Purity	≥95% determined by reducing and non-reducing SDS-PAGE

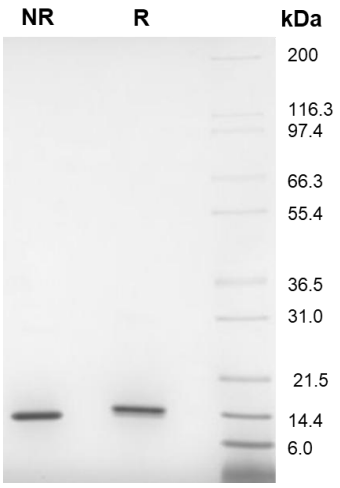
Specifications

Alternative names	T cell growth factor, TCGF, Aldesleukin
Biological activity	Canine IL-2 is fully biologically active when compared to standard. The activity is determined by the dose-dependent proliferation of CTLL-2 cells, and it is typically less than 5 ng/ml.
Endotoxin level	≤0.1 EU/µg as measured by kinetic LAL (50% confidence)
Formulation	Lyophilized from a 0.2 µm filtered solution containing 20 mM sodium bicarbonate, pH 8.5
AA sequence	MAPITSSSTK ETEQQMEQLL LDLQLLLNGV NNYENPQLSR MLTFKFYTPK KATEFTHLQC LAEELKNLEE VLGLPQSKNV HLTDTKELIS NMNVTLLKLK GSETSYNCEY DDETATITEF LNKWITFSQS IFSTLT

Preparation and storage

Reconstitution	Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile 10 mM sodium bicarbonate, pH 8.5 at 0.1 mg/mL, which can be further diluted into other aqueous solutions. If a precipitate is observed, centrifuge the solution thoroughly and use only the soluble fraction (removing it from the precipitate). A 10% overfill has been added to compensate for any loss of protein in the precipitate.
Stability and Storage	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.

Data



SDS-PAGE Showing a Single Prominent Band at 15.6 kDa

rc IL-2 (1µg) was resolved with SDS-PAGE under non-reducing (NR) and reducing (R) conditions and visualized by Instant Blue staining showing a single prominent band at 15.6 kDa.