
Product Data Sheet

Product Name: IL2 Feline
 Cat. No.: GP20484
 Batch No.: 1

Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin-2; IL-2; T-cell growth factor; TCGF; IL2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSAPASSST KETQQLEQL LLDLRLLLNG VNNPENPKLS RMLTFKFYVP KKATELTHLQ CLVEELKPLE EVLYLAQSKN FHLNHIKELM SNINVTVLKL KGSETRFTCN YDDETATIVE FLNKWITFCQ SIFSTLT.		
Formulation	IL2 protein solution (0.25mg/ml) containing 20mM Tris-HCl(pH8.0), 0.15M NaCl and 30% glycerol.		

Introduction

IL2 is a secreted cytokine that is important 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 (IL4) and interleukin 7 (IL7). The expression of this gene in mature thymocytes is monoallelic, which represents an unusual regulatory mode for controlling the precise expression of a single gene. The targeted disruption of a similar gene in mice leads to ulcerative colitis-like disease, which suggests an essential role of this gene in the immune response to antigenic stimuli.

Biological Activity

Measured in a cell proliferation assay using CTLL2 mouse cytotoxic T cells. The ED50 for this effect is less or equal to 0.3ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

IL2 Feline Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 157 amino acids (21-154 a.a) and having a molecular mass of 17.8kDa. IL2 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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