

## IL-2 Protein, Mouse

Cat. No.:	HY-P7077
Synonyms:	rMuIL-2; IL2; T-cell Growth Factor; TCGF; Aldesleukin
Species:	Mouse
Source:	E. coli
Accession:	P04351 (A21-Q169)
Gene ID:	16183
Molecular Weight:	Approximately 15-20 kDa

### PROPERTIES

AA Sequence	A P T S S S T S S S    T A E A Q Q Q Q Q Q    Q Q Q Q Q Q H L E Q    L L M D L Q E L L S R M E N Y R N L K L    P R M L T F K F Y L    P K Q A T E L K D L    Q C L E D E L G P L R H V L D L T Q S K    S F Q L E D A E N F    I S N I R V T V V K    L K G S D N T F E C Q F D D E S A T V V    D F L R R W I A F C    Q S I I S T S P Q
Biological Activity	Measured in a cell proliferation assay using CTLL-2 Cells. The ED <sub>50</sub> this effect is ≤ 0.5117 ng/mL, corresponding to a specific activity is ≥ 1.954×10 <sup>6</sup> units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4 or 20 mM PB, 150 mM NaCl, pH 7.4 or 20 mM Sodium Citrate, 0.2% Tween 80, pH 3.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

Background	Interleukin-2 (IL-2) is a multi-faceted cytokine, known for promoting proliferation, survival, and cell death depending on the cell type and state. For example, IL-2 facilitates cell death only in activated T cells when antigen and IL-2 are abundant. The availability of IL-2 clearly impacts this process. IL-2 is retained in blood vessels by heparan sulfate, and that biologically active IL-2 is released from vessel tissue by heparanase. The morphologic changes and rapid cell death induced by dimeric
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IL-2 imply that cell death is mediated by disruption of membrane permeability and subsequent necrosis. IL-2 has a direct and unexpectedly broad influence on cellular homeostatic mechanisms in both immune and non-immune systems<sup>[1]</sup>.

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## REFERENCES

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[1]. Wrenshall LE, et al. Identification of a cytotoxic form of dimeric interleukin-2 in murine tissues. PLoS One. 2014 Jul 14;9(7):e102191.

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

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