

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 17.2 kDa

PROPERTIES

AA Sequence	<p> 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 </p>
Biological Activity	The ED ₅₀ is <0.2 ng/mL as measured by murine CTLL-2 cells, corresponding to a specific activity of >5.0 × 10 ⁶ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against PBS, pH 7.4.
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 sterile distilled water or aqueous buffer containing 0.1% BSA.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. 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	<p>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 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^[1].</p>
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REFERENCES

[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.

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

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