

IL-2 Protein, Human

Cat. No.:	HY-P7037
Synonyms:	rHuIL-2; IL2; T-cell Growth Factor; TCGF; Aldesleukin
Species:	Human
Source:	E. coli
Accession:	P60568 (A21-T153)
Gene ID:	3558
Molecular Weight:	13-17 kDa

PROPERTIES

AA Sequence	<p> M A P T S S S T K K T Q L Q L E H L L L D L Q M I L N G I N N Y K N P K L T R M L T F K F Y M P K K A T E L K H L Q C L E E E L K P L E E V L N L A Q S K N F H L R P R D L I S N I N V I V L E L K G S E T T F M C E Y A D E T A T I V E F L N R W I T F C Q S I I S T L T </p>
Biological Activity	The ED ₅₀ is <0.3 ng/mL as measured by CTLL-2 cells, corresponding to a specific activity of >3.3 × 10 ⁶ units/mg.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution in 10 mM sodium citrate, pH 4.0 or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
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 ₂ 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	<p>Recombinant human interleukin-2 (IL-2) expressed as Escherichia coli is isolated as insoluble aggregates of protein (inclusion bodies) after cell breakage. Interleukin 2 (IL-2), a cytokine secreted by activated T cells, promotes the differentiation and proliferation of lymphoid cells as well as enhances the cell-mediated immune response to infections. Therefore IL-2 has been used as an adjunctive immunotherapeutic agent to control some infectious diseases, such as leishmaniasis, leprosy, and HIV infection^[1].</p>
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REFERENCES

[1]. Zhang R, et al. Therapeutic effects of recombinant human interleukin 2 as adjunctive immunotherapy against tuberculosis: A systematic review and meta-analysis. PLoS One. 2018 Jul 19;13(7):e0201025.

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

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA