

IL2

Recombinant Human Interleukin-2 Endotoxin Free

Catalog No.	CRI254B CRI254C CRI254D	Quantity:	50 µg 1 mg 100 µg
Alternate Names:	Interleukin-2, IL-2, T-cell growth factor, TCGF, Aldesleukin		
Description:	Interleukin 2 (IL-2) is a potent immunoregulatory growth factor produced by T-cells following stimulation by mitogens or allogens. IL-2 promotes growth and differentiation of various cells of the immune system, such as activated T-cells and B-cells, NK cells, lymphokine activated killer cells, monocytes and macrophages. It is essential for proper immune response, it may also be an important factor in the natural suppression of autoimmunity. IL-2 may be of use as an anti-tumor agent in cancer therapy. The Recombinant Human IL-2 contains 133 amino acids and a 16 aa His-tag for a total of 149 a.a.		
UniProt ID:	P60568		
Gene ID:	3558		
Concentration:	~ 0.50 mg/ml prior to lyophilization, lot specific		
Source:	Expressed in the endosperm of barley grain <i>Hordeum vulgare</i>		
Molecular Weight:	Predicted MW 17.5 kDa (133 aa + 16x His tag = total 149 aa) Apparent MW 22 kDa in SDS-PAGE, due to glycosylation		
Formulation:	Lyophilized from sterile-filtered 2X PBS, pH 7.2.		
Purity:	>95% by SDS-PAGE		
Endotoxin Level:	< 0.05 EU/µg as measured by turbidimetric kinetic assay.		
Cross-Reactivity:	Human and mouse IL-2 share 56% aa sequence identity and exhibit cross-species activity.		
Biological Activity:	ED ₅₀ < 1.5 ng/ml, determined by the dose-dependent effect of human IL-2 on proliferation of CTLL-2 cells.		
Specific Activity:	> 1.0 x 10 ⁶ U/mg, lot specific		
Reconstitution:	Centrifuge vial prior to opening. It is recommended to reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.		
Storage & Stability:	The lyophilized protein, though stable at room temperature for few weeks, is best stored at -20°C to -80°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C to -80°C. Avoid repeated freeze-thaw cycles.		

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