

## Recombinant Human Interleukin-2 (rhIL-2)

Expressed in CHO mammalian cells, glycosylated and non-glycosylated

For research use only. Not intended for diagnostic or therapeutic procedures.

Cat. No.: IL2.130411.1 (1 x 10<sup>4</sup> IU/ml bioactive rhIL-2)  
 IL2.130411.2 (1 x 10<sup>5</sup> IU/ml bioactive rhIL-2)  
 IL2.130411.3 (1 x 10<sup>6</sup> IU/ml bioactive rhIL-2)  
 Lot: (see product label)  
 Quantity: 1 vial contains 1 ml of recombinant human IL-2

Synonyms: T-cell growth factor (TCGF), lymphokine, IL-2

Description: Immunservice's recombinant human Interleukin-2 (rhIL-2) is a secreted cytokine consisting of a mixture of three isoforms (a glycosylated tetrasaccharide, a glycosylated trisaccharide and a non-glycosylated isoform) with a molecular weight of approximately 17 kDa. Recombinant human Interleukin-2 is biosimilar to natural IL-2 and particularly stable. Interleukin-2 is important for proliferation of T and B lymphocytes and stimulates differentiation of B-cells, NK cells, lymphokine activated killer cells, monocytes, macrophages and oligodendrocytes.

Components: Bioactive recombinant human interleukin-2 in RPMI 1640 medium supplemented with human serum albumin (HSA). It is recommended to dilute in media supplemented with HSA or FCS.

Source: rhIL-2 was produced by recombinant DNA technology using a genetically engineered CHO strain.

Bioactivity: The specific activity corresponds to a value of 1,72 x 10<sup>7</sup> IU/mg. The activity was determined by a dose dependent proliferation of the murine cytotoxic T-cell line CTLL-2 and calibrated against the 2<sup>nd</sup> International WHO Standard.

Applications: Recombinant human IL-2 is a bioactive protein and can be used for the culture of IL-2-dependent cells in cell culture applications and for the activation of immune cells. rhIL-2 causes proliferation of T-cells and regulates immune responses. rhIL-2 is cell culture tested and can be used for:

- Culture of human and murine IL-2-dependent primary T-cells, T-cell lines and NK cells
- Proliferation of mitogen-activated T-lymphocytes and NK cells
- Establishment of human and murine thymocyte, splenocyte or peripheral blood lymphocyte derived T-cell lines
- Generation of human and murine lymphokine-activated killer (LAK) cells

Endotoxicity: The endotoxin level was determined by LAL method and is ≤ 100 EU/ml

**Storage:** rhIL-2 should be stored at -20°C or -80°C. Avoid repeated freeze-thaw cycles. If stored accordingly, this recombinant human interleukin-2 is stable for 12 month.

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**References:**

1. Mosmann, T. **Rapid colorimetric assay for cellular growth and survival: application to proliferation and cytotoxicity assays.** J. Immunol. Methods 65, 55–63 (1983).
2. Fenwick BW1, Schore CE, O. B. **Human recombinant interleukin-2(125) induced in vitro proliferation of equine, caprine, ovine, canine and feline peripheral blood lymphocytes.** Comp Immunol Microbiol Infect Dis. 11, 51–60 (1988).

Further references on request from [Research@immunservice.com](mailto:Research@immunservice.com)

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**Additional products:**

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|---|-----------------------------|
| 1. i2Cult IL-2 Complete Medium<br>- for the culture of IL-2-dependent cells | Cat.No. IL2.130411.4        |
| 2. i2Cult CTLL-2 Complete Medium  | Cat.No. IL2. 130411.5       |
| 3. WST-1 cell proliferation Kit (ready-to-use)                              | Cat.No. WST1.150813.1-3     |
| 4. WST-1 CTLL-2 cell proliferation Kit<br>(ready-to-use)                    | Cat.No. WST1.CTLL150813.1-3 |
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