### Product Information: rhIL-2

**Product name:** Recombinant human Interleukin-2 (rhIL-2)

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>Quantity: 1 ampoule contains 1.0 ml recombinant human IL-2</th>
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</thead>
<tbody>
<tr>
<td>840010.1 (1 x 10^4 IU/ml)</td>
<td>(IL2130411.1)</td>
</tr>
<tr>
<td>840010.2 (1 x 10^5 IU/ml)</td>
<td>(IL2130411.2)</td>
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<tr>
<td>840010.3 (1 x 10^6 IU/ml)</td>
<td>(IL2130411.3)</td>
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</table>

**Synonyms:** T-cell growth factor (TCGF); Lymphokine; Interleukin-2.

**Description:** Interleukin-2 belongs to the group of cytokines which are bioactive proteins important in cell signaling. This rhIL-2 has a Molecular Weight of about 17 kDa and consists of a mixture of three protein isoforms (glycosylated tetrasaccharide, glycosylatedtrisaccharide and a non-glycosylated isoform). The mixed composition strongly resembles the naturally occurring IL-2 and shows a high stability. Interleukin-2 plays a key role in the proliferation of T- and B-lymphocytes. It stimulates the differentiation of B-cells, NK-cells, lamphokine-activated killer cells, monocytes, makrophages and oligodendrocytes.

**Ingredients:** Bioactive recombinant human Interleukin-2 in RPMI 1640 medium supplemented with HAS. We recommend to dilute rhIL-2 in HAS- or FBS-containing medium.

**Source:** rhIL-2 was produced by recombinant DNA technology using a genetically engineered CHO strain. The concentration is chosen according to the international WHO standard.

**Bioactivity:** The specific activity corresponds to 1,72 x 10^7 IU/mg. The activity was determined by a dose dependent proliferation of the murine cytotoxic T-cell line CTLL-2.

**Storage:** rhIL-2 should be stored at -20°C or -80°C. Avoid repeated freeze-thaw cycles. If stored accordingly it is stable for at least 6 months at -20°C and >6 months at -80°C.

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

**Applications:** Recombinant human IL-2 be used for the cultivation of IL-2-dependent cells in cell culture applications and for the activation of immune cells. It stimulates the proliferation of T-cells and regulates immune responses. rhIL-2 is cell culture tested and can be used for:

- cultivation 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

**References:**
Additional Products:
i2Cult IL-2 Complete Medium - for the cultivation of IL-2 dependent cells
i2Cult-CTLL-2 Complete Medium - for the cultivation of CTLL-2 cells
WST-1 cell proliferation Kit (ready-to-use)
WST-1 CTLL-2 cell proliferation Kit (ready-to-use)

Manufactured by: Immunservice GmbH.
Important note: This product is intended for research use only, not for use in human, therapeutic or diagnostic applications.