



3050 Spruce Street  
Saint Louis, Missouri 63103 USA  
Telephone 800-325-5832 • (314) 771-5765  
Fax (314) 286-7828  
email: techserv@sia.com  
sigma-aldrich.com

## Product Information

### RAT INTERLEUKIN-2 (IL-2)

T-Cell Growth Factor

Product Number **T 0892**

#### Product Description

Interleukin-2 is an immunomodulatory factor produced by certain subsets of T lymphocytes.<sup>1</sup> This lymphokine has proved useful in promoting long term growth and activation of T cells and related cell types, in inducing  $\alpha$ -interferon and B cell growth factor secretions, and in the activation and proliferation of NK cells.<sup>2-5</sup>

Interleukin-2 has been isolated from a number of cell types<sup>6-8</sup> and has also been produced by recombinant DNA technology.<sup>9</sup> Rat IL-2 was purified from medium obtained from rat splenocyte cultures stimulated with Concanavalin-A.

#### Performance Characteristics

Rat Interleukin-2 has been tested in culture by cell proliferation assay using an IL-2 dependent mouse cytotoxic T-cell line, CTLL-2.<sup>10</sup> The EC<sub>50</sub> is defined as the effective concentration of growth factor that elicits a 50% increase in cell growth in a cell based bioassay. Rat IL-2 does **not** effectively stimulate human T cells.

#### Product Information

EC<sub>50</sub>: 0.2 - 2.5 units/ml

Formulation: 0.2  $\mu$ m-filtered phosphate buffered saline containing 0.25% BSA.

Endotoxin: <100 EU/vial by LAL.

#### Reconstitution

To prepare a stock solution, aseptically reconstitute the vial contents in 10 ml of 0.2  $\mu$ m-filtered medium or balanced salt solution containing a minimum of 1 mg/ml protein. This may then be diluted immediately before use to the final working concentration of IL-2.

Additional filtration of the stock solution is **not** recommended and may result in product loss due to adsorption onto the filter membrane.

#### Storage/Stability

Prior to reconstitution store at 2-8 °C. Do not freeze the reconstituted product.

#### References

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