

## Human Interleukin- 2 (rDNA derived) Reference standard

Cat. No. IL2-80H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | This Standard is the primary biological standard for Interleukin-2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Usage            | No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. Dissolve the total contents of the ampoule in 0.5 ml of sterile distilled water. Rinse the ampoule with about 0.4ml of sterile phosphate buffered saline (PBS) and make up the total volume to 1.0ml with PBS. This solution will contain IL-2 at a concentration of 210 International Units/ml. Use carrier protein where extensive dilution is required. It is recommended that the IL-2 solution be used immediately or stored as indicated in section 5.                                                                                        |
| Notes            | This preparation is not for administration to humans. The preparation contains material of human origin, and either the final product or the source materials, from which it is derived, have been tested and found negative for HBsAg, anti-HIV and HCV RNA. As with all materials of biological origin, this preparation should be regarded as potentially hazardous to health. It should be used and discarded according to your own laboratorys safety procedures. Such safety procedures should include the wearing of protective gloves and avoiding the generation of aerosols. Care should be exercised in opening ampoules or vials, to avoid cuts. |
| Stability        | Reference materials are held at Creative Biomart within assured, temperature-controlled storage facilities and they should be stored on receipt as indicated on the label. Accelerated degradation studies have indicated that this material is suitably                                                                                                                                                                                                                                                                                                                                                                                                     |

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stable, when stored at -20°C or below, for the assigned values to remain valid until the material is withdrawn or replaced. These studies have also shown that the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

#### Storage

For economy of use, it is recommended that the solution be sub-divided into several small aliquots and stored at -40 °C or below. Avoid repeated thawing/freezing. Unopened ampoules should be stored at -20 °C . Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

### GENE INFORMATION

|                 |                                                                                                                                                        |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | IL2 interleukin 2 [ Homo sapiens ];                                                                                                                    |
| Official Symbol | IL2                                                                                                                                                    |
| Synonyms        | IL2; interleukin 2; interleukin-2; IL 2; T cell growth factor; TCGF; aldesleukin; involved in regulation of T-cell clonal expansion; IL-2; lymphokine; |
| Gene ID         | 3558                                                                                                                                                   |
| mRNA Refseq     | NM_000586                                                                                                                                              |
| Protein Refseq  | NP_000577                                                                                                                                              |
| MIM             | 147680                                                                                                                                                 |
| UniProt ID      | P60568                                                                                                                                                 |

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|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Chromosome Location</b> | 4q26-q27                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Pathway</b>             | Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Autoimmune thyroid disease, organism-specific biosystem; Autoimmune thyroid disease, conserved biosystem; Calcineurin-regulated NFAT-dependent transcription in lymphocytes, organism-specific biosystem; Calcium signaling in the CD4+ TCR pathway, organism-specific biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem; |
| <b>Function</b>            | carbohydrate binding; cytokine activity; glycosphingolipid binding; growth factor activity; interleukin-2 receptor binding; interleukin-2 receptor binding; kappa-type opioid receptor binding; kinase activator activity;                                                                                                                                                                                                                            |