

## Human Interleukin-1 Beta (rDNA derived) Reference standard

Cat. No. IL1B-83H    Lot. No. (See product label)

### SPECIFICATION

|                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Overview | Calibrant for IL-1 $\beta$ assays.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| Species          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Enzyme Unit      | Each ampoule contains approx. 0.75 $\mu$ g IL-1 $\beta$ . The assigned potency is 82,000 international units per ampoule.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| Usage            | No attempt should be made to weigh out any portion of the freeze-dried material prior to reconstitution. For all practical purposes each ampoule contains the same amount of the same materials. Dissolve the total contents in a known amount of suitable buffer solution with carrier protein (free of peptidase), where extensive dilution is required, to minimise loss by surface adsorption. For economy of use it is recommended that the solution be subdivided into several small containers, which are frozen rapidly to below $-40^{\circ}\text{C}$ and then stored below $-40^{\circ}\text{C}$ in the dark. Repeated freezing and thawing should be avoided. |
| 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.             |

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**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. An arbitrary unitage was assigned to this preparation at the time of production without confirmation of long term stability. Evidence from similar materials prepared by an equivalent process indicates that long term stability is likely to be maintained and the material is suitably stable for shipment at ambient temperature without any effect on the assigned values. Once reconstituted, diluted or aliquoted, users should determine the stability of the material according to their own method of preparation, storage and use. Users who have data supporting any deterioration in the characteristics of any reference preparation are encouraged to contact Creative Biomart.

**Storage**

Store at -20°C or below in the dark. Please note: because of the inherent stability of lyophilized material, Creative Biomart may ship these materials at ambient temperature.

## GENE INFORMATION

**Gene Name** [IL1B interleukin 1, beta \[ Homo sapiens \];](#)

**Official Symbol** [IL1B](#)

**Synonyms** [IL1B](#); interleukin 1, beta; interleukin-1 beta; IL 1B; IL1 BETA; IL1F2; IL-1 beta; catabolin; preinterleukin 1 beta; pro-interleukin-1-beta; IL-1; IL1-BETA;

**Gene ID** [3553](#)

**mRNA Refseq** [NM\\_000576](#)

**Protein Refseq** [NP\\_000567](#)

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|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>MIM</b>                 | 147720                                                                                                                                                                                                                                                                                                          |
| <b>UniProt ID</b>          | P01584                                                                                                                                                                                                                                                                                                          |
| <b>Chromosome Location</b> | 2q14                                                                                                                                                                                                                                                                                                            |
| <b>Pathway</b>             | African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Alzheimers disease, organism-specific biosystem; Alzheimers disease, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Apoptosis, organism-specific biosystem; |
| <b>Function</b>            | cytokine activity; cytokine activity; growth factor activity; interleukin-1 receptor binding; protein domain specific binding;                                                                                                                                                                                  |

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