

Product Datasheet

Recombinant Human Interleukin-1 alpha (rHuIL-1 α) (orb1495049)

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|--------------------------|---|
| Description | IL-1 alpha is a non-secreted proinflammatory cytokine produced in a variety of cells including monocytes, tissue macrophages, keratinocytes and other epithelial cells. Both IL-1alpha and IL-1beta binds to the same receptor and has similar if not identical biological properties. These cytokines have a broad range of activities including, stimulation of thymocyte proliferation, by inducing IL-2 release, B-cell maturation and proliferation, mitogenic FGF-like activity and the ability to stimulate the release of prostaglandin and collagenase from synovial cells. However, whereas IL-1beta is a secreted cytokine, IL-1alpha is predominantly a cell-associated cytokine. |
| Endotoxins | Less than 1EU/ μ g of rHuIL-1 α as determined by LAL method. |
| Preservatives | Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.5. |
| Form/Appearance | Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.5. |
| Storage | This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles. |
| Note | For research use only |
| Application notes | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at -20°C. Further dilutions should be made in appropriate buffered solutions. |
| Protein Sequence | SAPFSFLSNV KYNFMRIIKY EFILNDALNQ SIIRANDQYL TAAALHNLDE AVKFDMGAYK SSKDDAKITV ILRISKYQLY VTAQDEDDQPV LLKEMPEIPK TITGSETNLL FFWETHGTKN YFTSVAHPNL FIATKQDYWV CLAGGPPSIT DFQILENQA |
| Purity | > 97% by SDS-PAGE and HPLC analyses. |

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| | |
|------------------------|---|
| Source | Escherichia coli |
| MW | Approximately 18.0 kDa, a single non-glycosylated polypeptide chain containing 159 amino acids. |
| Expiration Date | 6 months from date of receipt. |

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