

Recombinant Rat Interleukin-1 alpha (Rat IL-1 α)

Product Information

| Product Name | Cat# | Size |
|--|-----------|-------------|
| | 90187ES10 | 10 μ g |
| Recombinant Rat Interleukin-1 alpha (Rat IL-1 α) | 90187ES60 | 100 μ g |
| | 90187ES76 | 500 μ g |

Product Description

Interleukin-1 alpha (IL1 α) is also known as IL-1A, IL1, and is a cytokine of the interleukin-1 family. Among various species, the amino acid sequence of mature IL-1 alpha is conserved 60% to 70% and human IL-1 has been found to be biologically active on murine cell lines. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. IL-1 is a major immunoregulatory/proinflammatory cytokine which also affects fibroblast proliferation and function and therefore it was of interest to investigate whether its constitutive expression influences the in vivo tumorigenic potential of transformed fibroblastoid cell lines.

Product Properties

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| Synonyms | Interleukin-1 alpha, IL-1 α , BAF, IL-1F1, LAF, LEM, preinterleukin 1 alpha, pro-interleukin-1-alpha |
| Accession | P16598 |
| GeneID | 24493 |
| Source | E.coli-derived rat IL-1alpha protein, Ser115-Ser270. |
| Molecular Weight | Approximately 17.8 kDa. |
| AA Sequence | SAPHSFQNNL RYKLIRIVKQ EFIMNDSLQ NIYVDMDRIH LKAASLNDLQ LEVKFDMYAY SSGGDDSKYP VTLKVSNTQL FVSAQGEDKP VLLKEIPETP KLITGSETDL IFFWEKINSK NYFTSAAFPE LLIATKEQSQ VHLARGLPSM IDFQIS |
| Tag | None |
| Physical Appearance | Sterile Filtered White lyophilized (freeze-dried) powder. |
| Purity | > 97% by SDS-PAGE and HPLC analyses. |
| Biological Activity | The ED ₅₀ as determined by a cell proliferation assay using murine D10S cells is less than 0.005 ng/mL, corresponding to a specific activity of > 2.0 \times 10 ⁸ IU/mg. Fully biologically active when compared to standard. |
| Endotoxin | < 1.0 EU per 1 μ g of the protein by the LAL method. |
| Formulation | Lyophilized from a 0.2 μ m filtered concentrated solution in 20 mM Tris, 150 mM NaCl, pH 8.5. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. |
| Reconstitution | 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 \leq -20°C. Further dilutions should be made in appropriate buffered solutions. |

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!