

Recombinant Rat Interleukin-10 (Rat IL-10)

Product Information

| Product Name | Cat# | Size |
|--|-----------|--------|
| | 90174ES10 | 10 µg |
| Recombinant Rat Interleukin-10 (Rat IL-10) | 90174ES60 | 100 µg |
| | 90174ES76 | 500 µg |

Product Description

Interleukin-10 (IL-10), also known as cytokine synthesis inhibitory factor (CSIF), is the charter member of the IL-10 family of α -helical cytokines that also includes IL-19, IL-20, IL-22, IL-24, and IL-26/AK155. IL-10 is a 178 amino acid molecule that contains two intrachain disulfide bridges and is expressed as a 36 kDa noncovalently associated homodimer. Mature human IL-10 shares 72%-86% amino acid sequence identity with bovine, canine, equine, feline, mouse, ovine, porcine, and rat IL-10. IL-10, a cytokine produced by CD4⁺ T lymphocytes belonging to the Th-2 subset, has previously been shown to inhibit the synthesis of IFN- γ by both T cells and NK cells. The anti-inflammatory actions of IL-10 may be therapeutically useful either directly or through modulation of HO-1 activity.

Product Properties

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| Synonyms | Interleukin-10, IL-10, Cytokine synthesis inhibitory factor, IL10A, TGIF, CSIF |
| Accession | P29456 |
| GeneID | 25325 |
| Source | E.coli-derived rat IL-10 protein, Ser19-Asn178. |
| Molecular Weight | Approximately 18.6 kDa. |
| AA Sequence | SKGHSIRGDN NCTHFPVSQT HMLRELRAAF SQVKTFQKK DQLDNILLTD SLLQDFKGYL GCQALSEMIK FYLVEVMPQA ENHGPEIKEH LNSLGEKTKT LWIQLRRCHR FLPCENKSKA VEQVKNDFNK LQDKGVYKAM NEFDIFINCI EAYVTLKMKN |
| 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 MC/9-2 cells is less than 1.0 ng/mL, corresponding to a specific activity of > 1.0 × 10 ⁶ IU/mg. Fully biologically active when compared to standard. |
| Endotoxin | < 0.1 EU per 1µg of the protein by the LAL method. |
| Formulation | Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM Tris-HCl, pH 8.0, 100 mM NaCl. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. |
| Reconstitution | Reconstitute in 10 mM HCl 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. |

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!