

Bioworld Technology, Inc.

Recombinant Mouse IL-1 Alpha (rMuIL-1 alpha)

Catalog Number: PR2004

Source: Escherichia col

Quantity:2µg/10µg/1.0mg

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 cellassociated cytokine.

Molecular Weight:

Approximately 17.9 kDa, a single non-glycosylated polypeptide chain containing 156 amino acids.

Purity:

>97% by SDS-PAGE and HPLC analyses

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of murine D10S cells is < 0.002 m/mL, corresponding to a specific activity of $> 5.0 \times 108$ units/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.

SAPYTYQSDLRYKLMKLVRQKFVMND SLNQTIYQDVDKHYLSTTWLNDLQQEV KFDMYAYSSGGDDSKYPVTLKISDSQL FVSAQGEDQPVLLKELPETPKLITGSET DLIFFWKSINSKNYFTSAAYPELFIATK

E Q S R V H L A R G L P S M T D F Q I S Endotoxin:

AA Sequence:

Less than 1EU/mg of rMuIL-1 alpha as determined by LAL method.

Reconstitution:

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.

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.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

Bioworld Technology, Inc.

1660 South Highway 100, Suite 500 St. Louis Park,MN55416,USA.Tel: 6123263284Fax: 6122933841

MADE IN CHINA Bioworld technology, co, Ltd. No 9, weidi road Qixia District Nanjing, 210046, P, R.China. Email: info@biogot.com Tel: 0086-025-86371664 Fax:0086-025-86213570