



Name	IL 1 alpha Rat, His
Description	Interleukin-1 alpha Rat Recombinant, His Tag
Pricings	5µg (\$60) 20µg (\$145) 1mg (\$2700)
Shipped	Shipped with Ice Packs
Catalogue Number	CYT-913

SYNONYMS

Interleukin-1 alpha, IL-1 alpha.

INTRODUCTION

IL-1 alpha is produced by activated macrophages, stimulates thymocyte proliferation by inducing il-2 release, b-cell maturation and proliferation, and fibroblast growth factor activity. IL1A proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.

DESCRIPTION

IL 1 alpha Rat Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 179 amino acids (115-270 a.a) and having a molecular mass of 20.2kDa.

IL 1 alpha is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

SOURCE

Escherichia Coli.

PHYSICAL APPEARANCE

Sterile Filtered colorless solution.

FORMULATION

IL 1 alpha protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

STABILITY

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid multiple freeze-thaw cycles.

PURITY

Greater than 95.0% as determined by SDS-PAGE.

SAFETY DATA SHEET

[SDS \(/Content/Images/uploaded/Safety Data Sheet/Cytokines/Interleukin/CYT-913.pdf\)](#)

BIOLOGICAL ACTIVITY

The biological activity was Rat IL1 alpha was measured in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 for this effect is less or equal to 20 pg/ml.

AMINO ACID SEQUENCE

MGSSHHHHHH SSGLVPRGSH MGSSAPHSFQ NNLRYKLIRI VKQEFIMNDS LNQNIYVDMD RIHLKAASLN
DLQLEVKFDM YAYSSGGDDS KYPVTLKVSN TQLFVSAQGE DKPVLLKEIP ETPKLITGSE TDLIFFWEKI
NSKNYFTSAA FPELLIATKE QSQVHLARGL PSMIDFQIS.

USAGE

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