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## Product Data Sheet

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Product Name: IL-1 Alpha Rat, His Active

Cat. No.: GP20446

Batch No.: 1

### Product Data

Purity	>98%	Source	E.coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Interleukin-1 alpha; IL-1 alpha.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSSAPHSFQ NNLRYKLIRI VKQEFIMNDS LNQNIYVDMMDRIHLKAASLN DLQLEVKFDY YAYSSGGDDSKYPVTLKVSN TQLFVSAQGE DKPVLLKEIPETPKLITGSE TDLIFFWEKI NSKNYFTSAA FPELLIATKE QSQVHLARGL PSMIDFQIS.		
Formulation	IL1A protein solution (1mg/ml) contains 10% glycerol & Phosphate Buffered Saline (pH 7.4).		

### Introduction

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

### Biological Activity

The ED50 that was measured in a cell proliferation assay using D10.G4.1 mouse helper T cell is <20 pg/ml.

### 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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IL1A 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.IL1A is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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