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**Product Data Sheet**


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Product Name: IL1A Human, His Active

Cat. No.: GP26038

Batch No.: 1

**Product Data**

Purity &gt;98%

Source E.coli.

Physical Appearance solid

Shipping Condition withIcePacks

Synonyms Interleukin-1 alpha, IL-1 alpha, Hematopoietin-1, Interleukin-1 alpha: Interleukin-1a, IL-1a, Interleukin-1 alpha, IL1A, interleukin 1 alpha, IL1F1, IL-1A, preinterleukin 1 alpha, pro-interleukin-1-alpha.

Amino Acid Sequence MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSA  
PFSFLSNVKY NFMRIIKYEF ILNDALNQSI IRANDQYLTA AALHNLDEAV  
KFDMGAYKSS KDDAKITVIL RISKTQLYVT AQDEDQPVLL KEMPEIPKTI  
TGSETNLLFF WETHGTKNYF TSVAHPNLFI ATKQDYWVCL AGGPPSITDF  
QILENQA.

Formulation IL1A protein solution (1mg/ml) contains 20mM Tris-HCl (pH 7.5) and 10% glycerol.

**Introduction**

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

**Biological Activity**

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 for this effect is less or equal to 0.04 ng/ml.

**Stability**

Store at 46yC if entire vial will be used within 2-4 weeks. Store, frozen at -206yC for longer periods of time. For long term storage it is recommended to add a carrier protein

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

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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(0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

IL1A Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 197 amino acids (113-271 a.a) and having a molecular mass of 22.4kDa. IL1A is fused to a 38 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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