

## 32-6403: IL1A Human, His Active

**Application :** Functional Assay  
Interleukin-1 alpha, IL-1 alpha, Hematopoietin-1, Interleukin-1 alpha: Interleukin-1a, IL-1a,  
**Alternative Name :** Interleukin-1 alpha, IL1A, interleukin 1 alpha, IL1F1, IL-1A, preinterleukin 1 alpha, pro-interleukin-1-alpha.

### Description

Source: E.coli.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 2 µg / 10 µg  
**Purification :** Greater than 90% as determined by SDS-PAGE.  
**Content :** IL1A protein solution (1mg/ml) contains 20mM Tris-HCl (pH 7.5) and 10% glycerol.  
**Storage condition :** 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.  
**Amino Acid :** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSMSA PFSFLSNVKY NFMRIIKYEF  
ILNDALNQSI IRANDQYLTA AALHNLDEAV KFDMGAYKSS KDDAKITVIL RISKTQLYVT AQDEDQPVLL  
KEMPEIPKTI TGSETNLLFF WETHGTKNYF TSVAHPNLFI ATKQDYWVCL AGGPPSITDF QILENQA.

### Application Note

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.