

## 32-6406: IL 1 alpha Rat, His

**Application :** Functional Assay  
**Alternative Name :** Interleukin-1 alpha, IL-1 alpha.

### Description

Source: Escherichia Coli.

Sterile Filtered colorless solution.

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.

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.

### Product Info

**Amount :** 5 µg / 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** IL 1 alpha protein solution (1mg/ml) containing Phosphate Buffered Saline (pH 7.4) 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 :** MGSSHHHHHH SSGLVPRGSH MGSSAPHSFQ NNLRYKLIRI VKQEFIMNDS LNQNIYVDMD RIHLKAASLN DLQLEVKFDM YAYSSGGDDS KYPVTLKVSN TQLFVSAQGE DKPVLLKEIP ETPKLITGSE TDLIFFWEKI NSKNYFTSAA FPELLIATKE QSQVHLARGL PSMIDFQIS.

### Application Note

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.