

## 32-6405: IL1A Mouse, Sf9

**Application :** Functional Assay

**Alternative Name :** IL1a, IL-1a, Hematopoietin-1, Lymphocyte-activating factor (LAF), Endogenous Pyrogen (EP), Leukocyte Endogenous Mediator (LEM), Mononuclear Cell Factor (MCF), IL-1 alpha, IL1, IL-1A, IL1F1.

### Description

Source: Sf9, Baculovirus cells.

Sterile Filtered colorless solution.

The cytokine IL-1 alpha or hematopoietin 1 is a member to the interleukin 1 family, encoded by the IL1A gene in humans. Essentially IL-1 is in charge of inflammation and the rising of fever and sepsis. In order to disturb the mentioned processes and treatment for diseases, inhibitors for Interleukin 1 alpha are being developed. Neutrophils and macrophages are the main activators of IL-1 alpha, as well as endothelial and epithelial cells. By binding to the IL1 receptor it is a major part in the immune response regulation. In the activation process of tumor necrosis factor-alpha the IL1A has a part as well, and has physiological, metabolic and hematopoietic activities.

IL1AMouse Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 165 amino acids (115-270a.a.) and having a molecular mass of 19.0kDa (Molecular size on SDS-PAGE will appear at approximately 18-28kDa). IL1A is expressed with a 9 amino acid His tag at C-Terminus and 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 (0.5mg/ml) contains 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 :** ADPSAPYTYQ SDLRYKLMKL VRQKFMNDS LNQTIYQDVD KHYLSTTWLN DLQQEVKFDL  
YAYSSGGDDS KYPVTLKISD SQLFVSAQGE DQPVLLKELP ETPKLITGSE TDLIFFWKSI NSKNYFTSAA  
YPELFIATKE QSRVHLARGL PSMTDFQISH HHHHH.

### Application Note

The ED50 as determined in a cell proliferation assay using D10.G4.1 mouse helper T cells is < 0.15 ng/ml.