
Product Data Sheet

Product Name: IL1A Mouse, Sf9

Cat. No.: GP20443

Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	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.		
Amino Acid Sequence	ADPSAPYTYQ SDLRYKLMKL VRQKFVMNDS LNQTIYQDVD KHYLSTTWLN DLQQEVKFDL YAYSSGGDDS KYPVTLKISD SQLFVSAQGE DQPVLLKELP ETPKLITGSE TDLIFFWKSI NSKNYFTSAA YPELFIATKE QSRVHLARGL PSMTDFQISH HHHHH.		
Formulation	IL1A protein solution (0.5mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

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.

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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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.

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