
Product Data Sheet

Product Name: IL1A Canine
 Cat. No.: GP26039
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	interleukin 1 alpha, IL1A, interleukin-1 alpha precursor, BAF, Hematopoietin-1, IL1 alpha, IL1F1hematopoietin-1, LAF, LEM, preinterleukin 1 alpha, pro-interleukin-1-alpha.		
Amino Acid Sequence	ADPSVAYNFH NNEKYNYIRI IKSQFILNDN LNQSIVRQTG GNYLMTAALQ NLDDAVKFDM GAYTSEDSKL PVTLRISKTR LFSVAQNEDE PVLLKEMPET PKTIRDETNL LFFWERHGSK HYFKSVAQPK LFIATQERKL VHMARGQPSI TDFRLLETQP HHHHHH		
Formulation	IL1A protein solution (0.25mg/ml) containing Phosphate-Buffered Saline (pH7.4) 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.

Biological Activity

Measured in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 range ≤ 2 ng/ml.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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

Product Data Sheet

Store at 4°C in the dark. The product can be used within 2-3 weeks after receipt, or 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

IL1A Canine produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 166 amino acids (109-265 aa) and having a molecular mass of 19.3 kDa. IL1A is fused to a 6 amino acid His tag at C-terminus and purified by proprietary chromatographic techniques.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

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