

32-13649: IL1A Canine

Format : IL1A protein solution (0.25mg/ml) containing Phosphate-Buffered Saline (pH7.4) and 10% glycerol.
Alternative Name : interleukin 1 alpha, IL1A, interleukin-1 alpha precursor,BAF, Hematopoietin-1, IL1 alpha, IL1F1hematopoietin-1, LAF, LEM, preinterleukin 1 alpha, pro-interleukin-1-alpha.

Description

Source:Sf9, Baculovirus cells.

Physical Appearance:Sterile Filtered colorless solution.

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

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.

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.

Product Info

Amount : 10 µg / 2 µg
Purification : Greater than 90.0% as determined by SDS-PAGE.
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 : ADPSVAYNFH NNEKYNYIRI IKSQFILNDN LNQSIVRQTG GNYLMTAALQ NLDDAVKFDM GAYTSEDSKL
PVTLRISKTR LFSVAQNEDE PVLLKEMPET PKTIRDETNL LFFWERHGSK HYFKSVAQPK LFIATQERKL
VHMARGQPSI TDFRLLETQP HHHHHH