

IL-1 alpha/IL-1F1 Active Protein | IL-1alpha/IL-1F1 active protein

Recombinant canine IL-1 alpha/IL-1F1 protein

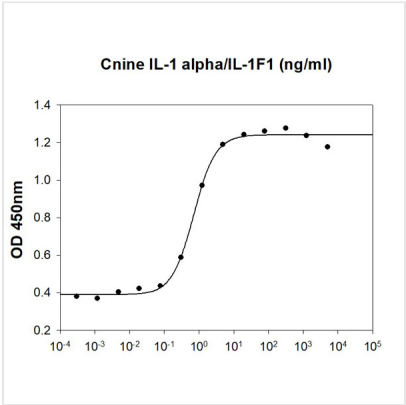
CATALOG # AAA48380	HOST Baculovirus	APPLICATIONS SDS-Page
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PRODUCT SYNONYMS

IL-1 alpha/IL-1F1; Recombinant canine IL-1 alpha/IL-1F1 protein; interleukin 1 alpha; IL1A; interleukin-1 alpha precursor;BAF; Hematopoietin-1; IL1 alpha; IL1F1hematopoietin-1; LAF; LEM; preinterleukin 1 alpha; pro-interleukin-1-alpha; IL-1alpha/IL-1F1 active protein

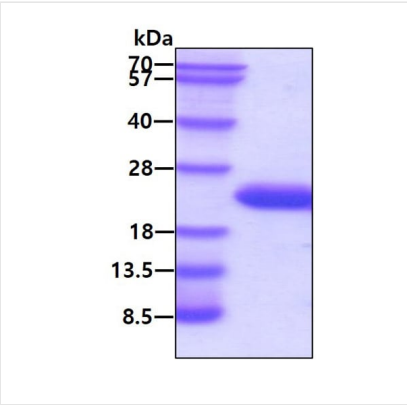
PRODUCT SPECIFICATIONS

Host	Baculovirus
Purity/Purification	>90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH7.4) containing 10% glycerol
Concentration	0.25mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	109-265aa
Sequence	SVAYN FHNNEKYNVI RIIKSQFILN DNLNQSIVRQ TGGNYLMTAA LQNLDDAVKF DMGAYTSEDS KLPVTLRISK TRLFVSAQNE DEPVLLKEMP ETPKTIRDET NLLFFWERHG SKHYFKSVAQ PKLFIATQER KLVHMARGQP SITDFRLLET QP
Applicable Applications for IL-1alpha/IL-1F1 active protein	Bioactivity, SDS-PAGE
Endotoxin	<1 EU per 1ug of protein (determined by LAL method)
Species	Canine
Tag	His-Tag
Predicted N-term	Ala
Bioactivity	Measured in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 range <= 2ng/ml.
Preparation and Storage	Can be stored at +2C to +8 degree C for 1 week. For long term storage, aliquot and store at -20C to -80 degree C. Avoid repeated freezing and thawing cycles.



SDS-PAGE

3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain



Bioactivity

Canine IL-1 alpha/IL-1F1 in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 range

ADDITIONAL INFORMATION

Related Product Information for IL-1alpha/IL-1F1 active protein	IL-1 alpha /IL-1F1, also known as hematopoietin 1 is a cytokine of the interleukin 1 family. IL-1alpha is a unique member in the cytokine family in the sense that the structure of its initially synthesized precursor does not contain a signal peptide fragment. In general, Interleukin 1 is responsible for the production of inflammation, as well as the promotion of fever and sepsis. IL-1 alpha inhibitors are being developed to interrupt those processes and treat diseases. IL-1 alpha is produced mainly by activated macrophages, as well as neutrophils, epithelial cells, and endothelial cells. It possesses metabolic, physiological, haematopoietic activities, and plays one of the central roles in the regulation of the immune responses. Although IL-1 production is generally considered to be a consequence of inflammation, recent evidence suggests that IL-1 is also temporarily upregulated during bone formation and the menstrual cycle and can be induced in response to nervous system stimulation. Recombinant canine IL-1 alpha /IL-1F1, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-1alpha/IL-1F1 active protein	Immunology; Proteins
References	Watanabe N., et al, (1994) Cytokine. 6:597-601. Nicklin MJ., et al, (1994) Genomics. 19:382-384. March CJ, Mosley B., et al, (1985). Nature. 315 : 641-647.

NCBI AND UNIPROT INFORMATION

UniProt Accession #	O46612
Molecular Weight	19.3kDa (166aa)
UniProt Protein Name	Interleukin-1 alpha
UniProt Gene Name	IL1A
UniProt Synonym Gene Names	IL-1 alpha

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.