

Active Recombinant Dog IL1A Protein, His-tagged

Cat. No. IL1A-011D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	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.
Species	Dog
Source	Insect cells
Description	Produced by activated macrophages, IL-1 stimulates thymocyte proliferation by inducing IL-2 release, B-cell maturation and proliferation, and fibroblast growth factor activity. IL-1 proteins are involved in the inflammatory response, being identified as endogenous pyrogens, and are reported to stimulate the release of prostaglandin and collagenase from synovial cells.
Form	Liquid
Bio-activity	Measured in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 range ≤ 2 ng/mL.
Molecular Mass	19.3 kDa
AA Sequence	SVAYNFHNNEKYNIRIKSQFILNDNLNQSIVRQTGGNYLMTAALQNLDDAVKFDMG AYTSEDSKLPVTLRISKTRLFVSAQNEDEPVLLKEMPETPKTIRDETNULLFFWERHGS KH YFKSVAQPKLFIATQERKLVHMARGQPSITDFRLLETQP

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Endotoxin	< 1 EU/μg of protein (determined by LAL method)
Purity	> 90% by SDS-PAGE
Applications	SDS-PAGE, Bioactivity
Storage	Can be stored at +2 to +8 centigrade for 1 week. For long term storage, aliquot and store at -20 to -90 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.25 mg/mL (determined by Absorbance at 280nm)
Storage Buffer	Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

GENE INFORMATION

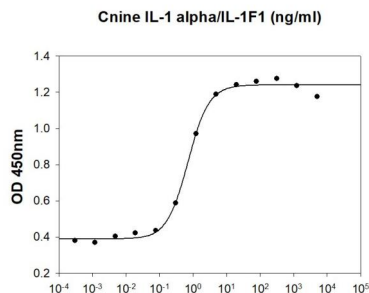
Gene Name	IL1A interleukin 1 alpha [<i>Canis lupus familiaris</i> (dog)]
Official Symbol	IL1A
Synonyms	IL1A; interleukin 1 alpha; interleukin-1 alpha; IL-1 alpha
Gene ID	403782
mRNA Refseq	NM_001003157
Protein Refseq	NP_001003157
UniProt ID	O46612

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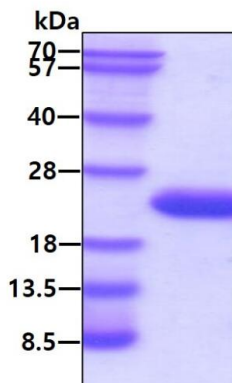
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Biological Activity



Canine IL-1 alpha/IL-1F1 in a cell proliferation assay using D10.G4.1 mouse helper T cell. The ED50 range ≤ 2 ng/mL.

SDS-PAGE



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