

Recombinant Canine IL6 protein, His-tagged

Cat. No. IL6-144C Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Canine IL6(21-207aa) fused with His tag at C-terminal was expressed in Insect cells.
Species	Canine
Source	Insect Cells
ProteinLength	21-207 a.a.
Description	IL6, as known as Interleukin-6, is a phosphorylated and variably glycosylated cytokine. It is secreted by T cells and macrophages to stimulate immune response during infection and after trauma, especially burns or other tissue damage leading to inflammation. Also, this protein can function as an anti-inflammatory molecule, as in skeletal muscle where it is secreted in response to exercise.
Form	Liquid. In Phosphate Buffered Saline (pH 7.4) containing 10% glycerol.
Molecular Mass	22.0kDa (195aa) 18-28kDa (SDS-PAGE under reducing conditions.)
AA Sequence	FPTPGPLAGD SKDDATSNSL PLTSANKVEE LIKYILGKIS ALRKEMCDKF NKCEDSKEAL AENNLHLPKL EGKDGCFQSG FNQETCLTRI TTGLVEFQLH LNILQNNYEG DKENVKSVHM STKILVQMLK SKVKNQDEVT TPDPTTDASL QAILQSQDEC VKHTTIHLIL RSLEDFLQFS LRAVRIMLEH HHHHH

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Endotoxin	< 1.0 EU per 1 microgram of protein (determined by LAL method)
Purity	> 95% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at +4 centigrade short term (1-2 weeks). For long term storage, aliquot and store at -20 centigrade or -70 centigrade. Avoid repeated freezing and thawing cycles.
Concentration	0.5mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	IL6 interleukin 6 [<i>Canis lupus familiaris</i>]
Official Symbol	IL6
Synonyms	IL-6; interleukin-6; interleukin 6 (interferon, beta 2)
Gene ID	403985
mRNA Refseq	NM_001003301
Protein Refseq	NP_001003301
UniProt ID	P41323
Chromosome Location	IL-6
Pathway	AGE-RAGE signaling pathway in diabetic complications, organism-specific biosystem;

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Antifolate resistance, organism-specific biosystem; Cytokine Signaling in Immune system, organism-specific biosystem

Function

cytokine activity; interleukin-6 receptor binding; growth factor activity

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