

IL-17A recombinant protein

Recombinant canine IL-17A protein

CATALOG # AAA48417	HOST HEK293	APPLICATIONS SDS-Page
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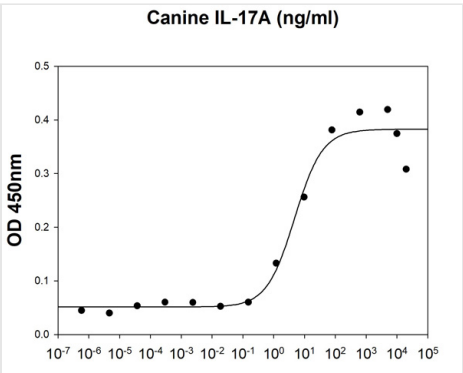
PRODUCT SYNONYMS

IL-17A; Recombinant canine IL-17A protein; IL17A; IL17; Interleukin 17A; Interleukin-17A; cytotoxic T-lymphocyte-associated serine esterase 8; CTLA-8; CTLA8; IL-17A recombinant protein

PRODUCT SPECIFICATIONS

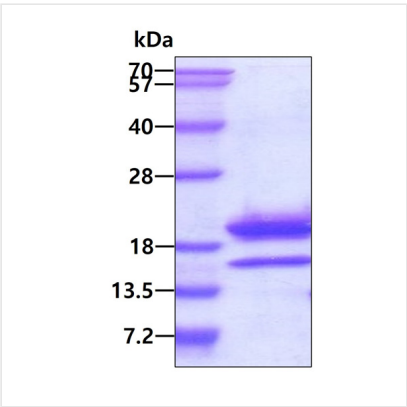
Host	HEK293
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 20% glycerol.
Concentration	0.5 mg/ml (determined by Absorbance at 280nm) (varies by lot)
Sequence Positions	29-155aa
Sequence	FPQNPGCRNT EDKNFPQHVK VNLNILNRNT NSRRPSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CVNNEGNINY HMNSVPIQQE ILVLRRESQH CPHSFRLEKM LVAVGCTCVT PIVRHVA
Applicable Applications for IL-17A recombinant protein	Bioactivity, SDS-PAGE
Species	Canine
Tag	His-Tag
Predicted Nterm	Phe 29
Endotoxin	< 1 EU per 1ug of protein (determined by LAL method)
Bioactivity	The activity is determined by the IL-6 ELISA in a using NIH/3T3 mouse embryonic fibroblast cells. The ED50 range <= 10 ng/ml.
Preparation and Storage	Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

IMAGES



Bioactivity

Canine IL-17A stimulates IL-6 secretion of the NIH/3T3 mouse embryonic fibroblast cells. The ED50 range



SDS-PAGE

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

ADDITIONAL INFORMATION

Related Product Information for IL-17A recombinant protein	IL-17A, also known as CTLA8, is a member of the IL-17 family of cytokines. This family demonstrate a structural motif termed a cysteine knot that also characterizes a large superfamily of growth factors. The IL-17 family of cytokines includes six members, IL-17A, IL-17B, IL-17C, IL-17D, IL-17E/IL-25, and IL-17F. IL-17A main function is stimulates production of IL-6, prostaglandin E and nitric oxide. And other inflammatory cytokines(TNF-alpha, IL-1 beta and IFN -gamma) leads to up-regulation of gene expression and progression and amplification of local inflammation. In addition, it serves induction of co-stimulatory molecules such as ICAM-1 and other cytokines, thereby supporting T cell activation. IL-17 expression has been associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis. Recombinant canine IL-17A, fused to His-tag at C-terminus, was expressed in HEK293 cell and purified by using conventional chromatography techniques.
Product Categories/Family for IL-17A recombinant protein	Immunology; Hormones & Cytokines
References	Moseley TA., et al, (2003) Cytokine & Growth Factor Reviews. 14: 155-174.;; Afzali, B. et al. (2007) Clin. Exp. Immunol. 148:32-46.;; Fossiez, F. et al. (1996) J. Exp. Med. 183:2593-2603.;;

NCBI AND UNIPROT INFORMATION

NCBI GI #	259490287
NCBI GeneID	481837
NCBI Accession #	NP_001159350.1
NCBI GenBank Nucleotide #	NM_001165878.1
UniProt Accession #	C6L8D7
Molecular Weight	17,764 Da
NCBI Official Full Name	interleukin-17A
NCBI Official Symbol	IL17A
NCBI Protein Information	interleukin-17A
UniProt Protein Name	Interleukin 17A
UniProt Gene Name	IL-17A

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.