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## Product Data Sheet

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Product Name: IL17A Canine  
 Cat. No.: GP26053  
 Batch No.: 1

### Product Data

Purity	>98%	Source	HEK293 cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	IL17A, IL17, IL-17A, CTLA8, CTLA8, Interleukin 17A, Interleukin-17A, cytotoxic T-lymphocyte-associated serine esterase 8.		
Amino Acid Sequence	FPQNPGRNT EDKNFPQHVK VNLNILNRNT NSRRPSDYNN RSTSPWNLHR NEDPERYPSV IWEAKCRHLG CVNNEGNINY HMNSVPIQQE ILVLRRESQH CPHSFRLEKM LVAVGCTCVT PIVRHVAHHH HHH		
Formulation	IL17A protein (0.5mg/ml) contains 10% glycerol and Phosphate-Buffered Saline (pH 7.4).		

### Introduction

IL17 is a proinflammatory cytokine produced by activated T cells. IL-17 regulates the activities of NF-kappaB and mitogen-activated protein kinases. Interleukin-17 can stimulate the expression of IL6 and cyclooxygenase-2 (PTGS2/COX-2), as well as enhance the production of nitric oxide (NO). High levels of IL-17 are associated with several chronic inflammatory diseases including rheumatoid arthritis, psoriasis and multiple sclerosis.

### Biological Activity

The activity is determined by the IL-6 ELISA in a using NIH/3T3 mouse embryonic fibroblast cells. The ED50 range  $\leq$  10 ng/ml.

### Stability

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.

### Background

**Caution: Product has not been fully validated for medical applications. For research use only.**

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IL17A Canine Recombinant produced in HEK293 cells is a single, glycosylated polypeptide chain (29-155a.a) containing 133 amino acids and having a molecular mass of 15.6kDa. IL17A is expressed with a 6 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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