

Recombinant Dog IL12A Protein, His-tagged

Cat. No. IL12A-1000D **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Dog IL12A Protein (Leu41-Leu186) with His tag was expressed in E. coli.
Species	Dog
Source	E.coli
ProteinLength	Leu41-Leu186
Description	This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 20.1 kDa; Accurate Molecular Mass: 25 kDa
Purity	> 97%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in PBS or others.

GENE INFORMATION

Gene Name	IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [<i>Canis lupus familiaris</i>]
Official Symbol	IL12A
Synonyms	IL12A; interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35); interleukin-12 subunit alpha; IL-12A; CLMF p35; interleukin 12B; IL-12 subunit p35; interleukin-12 p35 subunit; cytotoxic lymphocyte maturation factor 35 kDa subunit;
Gene ID	403977
mRNA Refseq	NM_001003293
Protein Refseq	NP_001003293

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UniProt ID

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