Recombinant Human IL12A/IL12B Complex Protein, His-tagged

Cat. No. IL12A/IL12B-3H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human IL12A/IL12B fusion Protein, fused to His-tag was expressed in HEK293T cells.
Species	Human
Source	HEK293
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. This gene encodes a subunit of interleukin 12, a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. Interleukin 12 is a disulfide-linked heterodimer composed of the 40 kD cytokine receptor like subunit encoded by this gene, and a 35 kD subunit encoded by IL12A. This cytokine is expressed by activated macrophages that serve as an essential inducer of Th1 cells development. This cytokine has been found to be important for sustaining a sufficient number of memory/effector Th1 cells to mediate long-term protection to an intracellular pathogen. Overexpression of this gene was observed in the central nervous system

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	of patients with multiple sclerosis (MS), suggesting a role of this cytokine in the pathogenesis of the disease. The promoter polymorphism of this gene has been reported to be associated with the severity of atopic and non-atopic asthma in children.
Form	Liquid
AA Sequence	Alpha chain: RNLPVATPDPGMFPCLHHSQNLLRA VSNMLQKARQTLEFYPCTSEEIDHE DITKDKTSTVEACLPLELTKNESCL NSRETSFITNGSCLASRKTSFMMAL CLSSIYEDLKMYQVEFKTMNAKLLM DPKRQIFLDQNMLAVIDELMQALNF NSETVPQKSSLEEPDFYKTKIKLCI LLHAFRIRAVTIDRVMSYLNASGGG GSHHHHHH Beta-chain: IWELKKDVYVVELDWYPDAPGEMVV LTCDTPEEDGITWTLDQSSEVLGSG KTLTIQVKEFGDAGQYTCHKGGEVL SHSLLLLHKKEDGIWSTDILKDQKE PKNKTFLRCEAKNYSGRFTCWWLTT ISTDLTFSVKSSRGSSDPQGVTCGA ATLSAERVRGDNKEYEYSVECQEDS ACPAAEESLPIEVMVDAVHKLKYEN YTSSFFIRDIIKPDPPKNLQLKPLK NSRQVEVSWEYPDTWSTPHSYFSLT FCVQVQGKSKREKKDRVFTDKTSAT VICRKNASISVRAQDRYYSSSWSEW ASVPCS
Purity	>90% determined by SDS-PAGE (Reduced).
Storage	Store at -20 centigrade to -80 centigrade.
Storage Buffer	PBS, pH 6.8

GENE INFORMATION

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Gene Name	IL12A interleukin 12A [Homo sapiens (human)]&IL12B interleukin 12B [Homo sapiens (human)]
Official Symbol	IL12A/IL12B
Synonyms	P35; CLMF; NFSK; NKSF1; IL-12A/CLMF; NKSF; CLMF2; IMD28; IMD29; NKSF2; IL-12B
Gene ID	3592&3593
mRNA Refseq	NM_000882.4&NM_002187.3
Protein Refseq	NP_000873.2&NP_002178.2
MIM	161560&161561
UniProt ID	P29459&P29460
SDS-PAGE	

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