

Active Recombinant Human IL12A/IL12B protein

Cat. No. IL12A-27H Lot. No. (See product label)

SPECIFICATION

Product Overview The hIL-12 consists of two subunits linked via a disulphide bond: P35 (Accession# NP_000873.2: Arg 57- Ser 253) and P40 (Accession# NP_002178.2: Ile 23-Ser 328) was expressed in insect cells as secreted protein (p35, p40).

Species Human

Source Insect Cells

ProteinLength 57-253;23-328 a.a.

Form The protein was 0.22µm filtered in 10mM NaH₂PO₄, 150mM NaCl, pH 7.2.

Bio-activity ED50 = 0.05 - 0.25 ng/ml, corresponding to a specific activity of 0.4 - 2.0 x 10⁷ units/mg, as determined by the production of IFN γ by activated human PBMC in response to IL-12.

Molecular Mass The total predicted molecular weight is 57 kDa. The non-reduced protein migrates at approximately 55 kDa and the DTT-reduced protein produces two bands migrating at approximately 26 kDa and 40 kDa by SDS-PAGE.

AA Sequence
 RNLPVATPDPGMFPC LHHSQNL LRAVS NMLQKARQTLEFY PCTSEEIDHEDITKDKT
 STVEACLPLELTKNESCLNSRETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVE
 FKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSETVPQKSSLEEPDFYKTKIKL
 CILLHAFRIRAVTIDRVMSYLNAS p40 Subunit IWELKKDVYVVELDWYPDAPGEMVV
 LTCDTPEEDGITWT

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Endotoxin	< 1 EU/g determined by LAL method
Purity	>95 % as determined by SDS-PAGE analysis
Applications	ELISA, WB, Antibody Production, Protein array, Bioassay
Storage	Unopened vial can be stored at -20°C for six months or at -70°C for one year. For maximum results, quick spin vial prior to opening. Stock solutions should be prepared at no less than 10g/mL in buffer containing carrier protein such as 1% BSA or HSA or 1

GENE INFORMATION

Gene Name	IL12A interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) [Homo sapiens]
Official Symbol	IL12A
Synonyms	IL12A; interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35); NKSF1; interleukin-12 subunit alpha; CLMF; cytotoxic lymphocyte maturation factor 1; p35; IL 12; subunit p35; IL 12A; IL35 subunit; interleukin 12; interleukin 12 alpha chain; natural killer cell stimulatory factor 1; 35 kD subunit; NF cell stimulatory factor chain 1; NFSK; CLMF p35; IL-12 subunit p35; IL-12, subunit p35; interleukin 12, p35; interleukin-12 alpha chain; NK cell stimulatory factor chain 1; cytotoxic lymphocyte maturation factor 1, p35; cytotoxic lymphocyte maturation factor 35 kDa subunit; natural killer cell stimulatory factor 1, 35 kD subunit; P35; IL-12A;
Gene ID	3592
mRNA Refseq	NM_000882

Protein Refseq	NP_000873
MIM	161560
UniProt ID	P29459
Chromosome Location	3p12-q13.2
Pathway	African trypanosomiasis, organism-specific biosystem; African trypanosomiasis, conserved biosystem; Allograft rejection, organism-specific biosystem; Allograft rejection, conserved biosystem; Amoebiasis, organism-specific biosystem; Amoebiasis, conserved biosystem; Chagas disease (American trypanosomiasis), organism-specific biosystem;
Function	contributes_to cytokine activity; contributes_to cytokine activity; contributes_to growth factor activity; contributes_to growth factor activity; interleukin-12 beta subunit binding; interleukin-12 receptor binding; interleukin-27 binding; protein binding

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