

Product datasheet for **TP723721**

IL12A (NM_000882) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Purified recombinant protein of Human interleukin 12A (natural killer cell stimulatory factor 1, cytotoxic lymphocyte maturation factor 1, p35) (IL12A)
Species:	Human
Expression Host:	Sf9
Expression cDNA Clone or AA Sequence:	Secreted protein p35: Accession# NM_000882, and p40: Accession# NM_002187
Tag:	Tag Free
Predicted MW:	57 kDa
Concentration:	lot specific
Purity:	95%, as determined by Coomassie stained SDS-PAGE.
Buffer:	10 mM NaH ₂ PO ₄ , 150 mM NaCl, pH 7.2
Bioactivity:	Human IL-12 (p70) induces the production of IFN γ in human activated PBMC in a dose-dependent manner. The ED ₅₀ for this effect is 0.01 – 0.1 ng/mL.
Endotoxin:	Less than 0.01 ng per μ g protein as determined by the LAL method
Storage:	Store at -80°C.
Stability:	Unopened vial can be stored between 2°C and 8°C for up to 2 weeks, at -20°C for up to 6 months, or at -70°C or below until the expiration date. Aliquots can be stored between 2°C and 8°C for up to one week and stored at -20°C or colder for up to 3 months. Avoid repeated freeze/thaw cycles.
RefSeq:	NP_000873
Locus ID:	3592
UniProt ID:	P29459 , O60595
RefSeq Size:	1450
Cytogenetics:	3q25.33
RefSeq ORF:	759
Synonyms:	CLMF; IL-12A; NFSK; NKSF1; P35



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Summary:

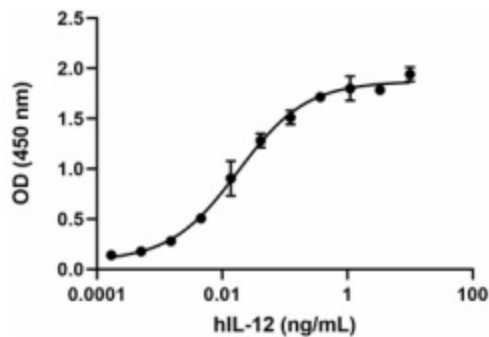
This gene encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This 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. [provided by RefSeq, Jul 2008]

Protein Families:

Druggable Genome, Secreted Protein

Protein Pathways:

Allograft rejection, Cytokine-cytokine receptor interaction, Jak-STAT signaling pathway, RIG-I-like receptor signaling pathway, Toll-like receptor signaling pathway, Type I diabetes mellitus

Product images:

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