

Human IL-12 p70, (glycosylated, HEK)

Synonyms: NKSF, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor (CLMF), TSF, Edodekin-alpha, IL-12.

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
2 µg	1545.955.002		
10 µg	1545.955.010		
100 µg	1545.955.100		

Please enquire for bulk quantities and other vial sizes

Description

Interleukin-12 Human Recombinant produced in HEK cells is a glycosylated heterodimer, having a total molecular weight of 57kDa.

- **Source** HEK
- **Purity** ≥ 95 % (SDS-PAGE)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** IL12 was lyophilized from a 0.2µm filtered solution containing 1xPBS*
- **Physical state** Sterile filtered, lyophilized

Biological Activity

The specific activity was determined by the dose-dependent release of IFN-gamma from the human NK92 cell line in presence of 20ng/mL rIL-2. The EC50 is 0.5ng/ml.

Reconstitution

It is recommended to reconstitute the lyophilized IL12 in sterile PBS containing 0.1% endotoxin-free recombinant HSA.

Stability

Lyophilized IL-12 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL12 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

IL-12 is a heterodimer of p70 and p40. The p70 chain is encoded by the IL12B gene and the p40 chain is encoded by the IL12A gene. The amino acid sequence of the p70 chain is as follows:

>IL-12A
 MRLQKARQTL FYPCTSEEID HEDITKDKTS TVEACLPLEL TKNESCLNSR ETSFITNGSC LASRKTSFMM
 ALCLSSIIYED LKMYQVEFKT MNAKLLMDPK RQIFLDQNMAL AVIDELMQAL NFNSETVTPQK SSLEEPDFYK
 TKIKLCILLH AFRIRAVTID RVMSYLNAS. >IL-12B
 IWELKKDVYV VELDWYPDAP GEMVVLTCDT
 PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHLL LLHKKEDGIW STDILKDQKE
 PKNKTFRLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERVRG DNKEYEYSVE
 CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW
 STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYSSSSWSEW ASVPCS

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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