
Product Data Sheet

Product Name: IL12 Human, His
 Cat. No.: GP20553
 Batch No.: 1

Product Data

Purity	>98%	Source	Baculovirus.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	23-219aa (IL12A) / 23-328aa (IL12B); Interleukin 12 (subunit beta/alpha); IL12 His; NKSF1; NKSF; CTL maturation factor (TCMF); Cytotoxic lymphocyte maturation factor (CLMF); TSF; Edodekin-alpha; IL-12.		
Amino Acid Sequence	IL12A(p35):RNLPVATPDP GMFPCLHHSQ NLLRAVSNML QKARQTLEFY PCTSEEIDHE DITKDKTSTV EACLPLELTK NESCLNSRET SFITNGSCLA SRKTSFMMAL CLSSIEDLK MYQVEFKTMN AKLLMDPKRQ IFLDQNMLAV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV MSYLNASHHH HHH. IL12B(p40):IWELKKDVYV VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERVRG DNKEYEYSVE CQEDSACPA A EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS.		
Formulation	IL12 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.		

Introduction

IL-12 is a heterodimeric cytokine that stimulates the production of interferon gamma from T-cells and natural killer cells, and also induces differentiation of Th1 helper cells. IL-12 is an initiator of cell-mediated immunity.

Biological Activity

The activity is determined by the IFN-g ELISA in a using NK-92 cell. The ED50 for this effect is less than or equal to 0.03 ng/ml.

Caution: Product has not been fully validated for medical applications. For research use only.

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

IL12 Human Recombinant produced in a baculovirus expression system is a glycosylated disulfide linked (through cysteines in bold) heterodimer comprised of IL12A (23-219aa, total of 203 aa, MW 23.3kDa) and IL12B (23-328aa, total of 306 aa, MW 34.6kDa), having a total predicted molecular mass of 57.9kDa (Molecular weight on SDS-PAGE will appear higher). IL12A is fused to a 6 amino acid His-Tag at C-terminus and purified by proprietary chromatographic techniques.

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