

Human IL12 Recombinant Protein



RPPB0569

Product Information Protein Information

Product SKU:

RPPB0569

Host:

Baculovirus.

Protein description:

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.

Appearance:

Sterile filtered colorless solution.

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.

Formulation:

IL12 protein solution (0.5mg/ml) containing Phosphate buffered saline (pH7.4) and 10% glycerol.

Purity:

Greater than 90.0% as determined by SDS-PAGE.

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.

Amino Acid Sequence:

IL12A(p35):RNLPVATPDP GMFPCLLHHSQ NLLRAVSNNML QKARQTLEFY PCTSEEIDHE DITKDKTSTV
EACLPLELTK NESCLNSRET SFITNGSCLA SRKTSFMMAL CLSSIEDLK MYQVEFKTMN AKLLMDPKRQ
IFLDQNMLAV IDELMQALNF NSETVPQKSS LEEPDFYKTK IKLCILLHAF RIRAVTIDRV MSYLNASHHH HHH.
IL12B(p40):IWELKKDVYV VELDWYPDAP GEMVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF
GDAGQYTCHK GGEVLHSHLL LLHKEDGIW STDILKDQKE PKNKTLRCE AKNYSGRFTC WWLTTISTDL
TFSVKSSRGs SDPQGVTCGA ATLSAERVGR DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN
YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD
KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS.

Biological Activity:

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