



Interleukin-12 p40, His Tag, Baculovirus, human recombinant (rHull-12-p40-Baculovirus-His)

Catalog No: 97492
Lot No: XXXXX
Source: Baculovirus
Synonyms: NKSF2, CTL maturation factor (TCMF), Cytotoxic lymphocyte maturation factor 40 kDa subunit (CLMF p40), TSF, Edodekin-alpha, IL-12 p40, IL-12B, IL-12 subunit p40, NK cell stimulatory factor chain 2

Background

Active IL-12 is a p70 disulphide-linked dimer composed of p35 and p40 subunits. The protein is a pleiotropic cytokine produced primarily by antigen presenting cells and has multiple effects on T lymphocytes and natural killer cells in terms of stimulating cytotoxicity, proliferation, production of other cytokines and Th1 subset differentiation.

Description

Interleukin-12 p40 human recombinant produced in Hi-5 cells using Baculovirus is a single polypeptide chain containing 315 amino acids (23-328) and having a molecular mass of 35.8 kDa. IL 12 p40 is fused to a 6 amino acid His Tag at C-terminus and purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered colorless solution.

Formulation

The IL 12 p40 solution (0.25 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 100 mM NaCl, 2 mM DTT, 100 mM PMSF and 20% glycerol.

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.

Purity

Greater than 90% as determined by SDS-PAGE.

Amino Acid Sequence

ADPIWELKKD VYVVELDWYP DAPGEMVVL TCDTPEEDGIT WTLDQSSEVL GSGKTLTIQV KEFGDAGQYT CHKGGEVLSH
SLLLLHKKED GIWSTDILKD QKEPKNKTF L RCEAKNYSGR FTCWWTITIS TDLTFSVKSS RGSSDPQGV T CGAATLSAER
VRGDNKEYEY SVECQEDSAC PAAEESLPIE VMVDAVHKLK YENYTSSFFI RDIKPDPPK NLQLKPLKNS RQVEVSWEYP
DTWSTPHSYF SLTFCVQVQG KSKREKKDRV FTDKTSATVI CRKNASISVR AQDRYYSSW SEWASVPCSH HHHHH

Usage

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CONTACT US TODAY

BIOMOL GmbH • Kieler Straße 303a • 22525 Hamburg • Germany • info@biomol.de • www.biomol.de

Fon: +49 (0)40-853 260 0 • TOLL FREE IN GERMANY: Fon: 0800-246 66 51