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## Product Data Sheet

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Product Name: IL 12 p40 Human Baculovirus

Cat. No.: GP20551

Batch No.: 1

**Product Data**

Purity	>98%	Source	Baculovirus
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
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.		
Amino Acid Sequence	ADPIWELKKD VYVELDWYP DAPGEMVVL TCDTPEEDGIT WTLDQSSEVL GSGKTLTIQV KEFGDAGQYT CHKGGEVLSH SLLLLHKKED GIWSTDILKD QKEPKNKTFL RCEAKNYSGR FTCWWLTTIS TDLTFSVKSS RGSSDPQGV CGAATLSAER VRGDNKEYEY SVECQEDSAC PAAEESLPIE VMVDAVHKLK YENYTSSFFI RDIKPDPPK NLQLKPLKNS RQVEVSWEYP DTWSTPHSYF SLTFCVQVQG KSKREKKDRV FTDKTSATVI CRKNASISVR AQDRYYSSSW SEWASVPCSH HHHHH		
Formulation	The IL 12 p40 solution (0.25mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 100mM NaCl, 2mM DTT, 100mM PMSF and 20% glycerol.		

**Introduction**

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.

**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**

IL 12 p40 Human Recombinant produced in Hi-5 cell using Baculovirus is a single

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

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polypeptide chain containing 315 amino acids (23-328) and having a molecular mass of 35.8kDa. IL 12 p40 is fused to a 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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