DATASHEET

Recombinant Human Interleukin-12

CAT. NO. ARP6782

KEY FEATURES

Target	Interleukin-12	Source/Expression System	CHO
Reactivity	Human	Aapplication	SDS-PAGE
Abbreviation	rHuIL-12	Synonyms	Interleukin-12, NKSF, CTL Maturation Factor (TCMF), Cytotoxic Lymphocyte Maturation Factor (CLMF), TSF

BACKGROUND

IL-12 is a potent regulator of cell-mediated immune responses and it induces IFN-γ production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes and connective tissue-type mast cells. Among its biological activities, IL-12 promotes the growth and activity of activated NK, CD4+ and CD8+ cells, and induces the development of IFN-γ-producing Th1 cells. Recombinant Human IL-12 is a 75.0kDa heterodimeric glycoprotein consisting of disulfide-linked 35kDa (p35) and 40kDa (p40) subunits.

PRODUCT OVERVIEW

Molecular Weight	Approximately 75.0 kDa, consisting of disulfide-linked 35.0 kDa (p35) and 40.0 kDa (p40) subunits.
Accession	P29459 HuIL-12 p35: Arg23-Ser219; HuIL-12 p40: Ile23-Ser328
A.A. Sequence	P35 Subunit: RNLPVATPDPGMFPCLHHSQNLLRAVSNMLQKARQTLEFYPCTSEEIDHEDITKDKTSTVEACLPLELTKNESCLNSR ETSFITNGSCLASRKTSFMMALCLSSIYEDLKMYQVEFKTMNAKLLMDPKRQIFLDQNMLAVIDELMQALNFNSETV PQKSSLEEPDFYKTKIKLCILLHAFRIRAVTIDRVMSYLNAS P40 Subunit: IWELKKDVYVVELDWYPDAPGEMVVLTCDTPEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQYTCHKGGEVLS HSLLLLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWLTTISTDLTFSVKSSRGSSDPQGVTCGAATLS AERVRGDNKEYEYSVECQEDSACPAAEESLPIEVMVDAVHKLKYENYTSSFFIRDIIKPDPPKNLQLKPLKNSRQVEVS WEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTSATVICRKNASISVRAQDRYYSSSWSEWASVPCS
Purity	＞96% by SDS-PAGE or HPLC.
Biological Activity	Fully biologically active when compared to standard. The ED50 as determined by its ability to induce IFN-γ production from NK cells co-stimulated with IL-18. The expected ED50 is ≤ 1.0 ng/ml, corresponding to a specific activity of ≥ 1×10^6 units/mg.
Formulation	Lyophilized from a 0.2 μm filtered concentrated solution in PBS, pH 7.4.
Appearance	Sterile filtered White lyophilized (freeze-dried) powder.
Endotoxin	< 0.01 EU/μg of rHuIL-12 protein as determined by LAL method.
Reconstitution	Before use this product, please read the direction below carefully. This vial must be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20°C. Further dilutions should be made in appropriate buffered solutions.

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STORAGE

For long term storage, the product should be stored ≤ -20°C. Please avoid repeated freeze-thaw cycles after reconstitution. 36 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8°C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

NOTE

For Research Use Only. Not for diagnostic, therapeutics, prophylactic or in vivo use.