Datasheet for ABIN988026

IL-11 Protein

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Overview

Quantity:	10 µg
Target:	IL-11 (IL11)
Origin:	Human
Source:	Escherichia coli (E. coli)
Biological Activity:	Active

Product Details

Sequence:	PGPPPGPPR VSPDPRAELD STVLLTRSLL ADTRQLAAQL RDKFPADGDH NLDSLPTLAM SAGALGALQL PGVLTRLRAD LLSYLRHVQW LRRAGGSSLK TLEPELGTLQ ARLDRLLRRL QLLMSRLALP QPPPDPPAPP LAPPSSAWGG IRAAHAILGG LHLTLDWAVR GLLLLKTR
Characteristics:	Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of murine B9-11 was found to be less than 1 ng/ml, corresponding to a specific activity of 1 x 107 IU/mg.
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Endotoxin Level:	Level Less than 1EU/µg of rHuIL-11 as determined by LAL method

Target Details

Target:	IL-11 (IL11)
Alternative Name:	Interleukin-11 (IL-11) (IL11 Products)
Background:	Interleukin 11 is a pleiotropic cytokine that was originally detected in the conditioned medium of an IL-1a-stimulated primate bone marrow stromal cell line (PU-34) as a mitogen for the IL-6-

Target Details

	responsive mouse plasmacytoma cell line T1165. IL-11 was also independently discovered as an adipogenesis inhibitory factor (AGIF). The human IL-11 cDNA encodes a 199 amino acid residue precursor polypeptide with a 21 amino acid residue hydrophobic signal that is processed proteolytically to generate the 178 amino acid residue mature protein. IL-11 contains no cysteine residues or potential glycosylation sites.IL-11 has multiple effects on both hematopoietic and nonhematopoietic cells. Many of the biological effects described for IL-11 overlap those for IL-6. In vitro, IL-11 can synergize with IL-3, IL-4 and SCF to shorten the G0 period of early hematopoietic progenitors. IL-11 also enhances the IL-3-dependent megakaryocyte colony formation. IL-11 has been found to stimulate the T cell dependent development of specific immunoglobulin-secreting B cell. Synonym:. Formulation: Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.
Molecular Weight:	Approximately 19.1 kDa, a single non-glycosylated polypeptide chain containing 178 amino acids.
Pathways:	JAK-STAT Signaling, Negative Regulation of Hormone Secretion

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in 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.
Storage:	4 °C