Datasheet for ABIN7520141

IL-11 Protein

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Overview

Quantity:	20 µg
Target:	IL-11 (IL11)
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Purpose:	Active Recombinant Human IL-11 Protein
Sequence:	PGPPPGPPRV SPDPRAELDS TVLLTRSLLA DTRQLAAQLR DKFPADGDHN LDSLPTLAMS AGALGALQLP GVLTRLRADL LSYLRHVQWL RRAGGSSLKT LEPELGTLQA RLDRLLRRLQ LLMSRLALPQ PPPDPPAPPL APPSSAWGGI RAAHAILGGL HLTLDWAVRG LLLLKTRL
Specificity:	Pro22-Leu199
Purity:	> 97 % by SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	< 1.0 EU/µg of the protein by LAL method.
Biological Activity Comment:	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED_{50} for this effect is 1.3-5 ng/mL, corresponding to a specific activity of $2x10^5$-$7.69x10^5$units/mg.

Target Details

Target:	IL-11 (IL11)

Target Details

Alternative Name:	IL-11 (IL11 Products)
Background:	Description: The protein is a member of the gp130 family of cytokines. These cytokines drive the assembly of multisubunit receptor complexes, all of which contain at least one molecule of the transmembrane signaling receptor IL6ST (gp130). This cytokine is shown to stimulate the T-cell-dependent development of immunoglobulin-producing B cells. It is also found to support the proliferation of hematopoietic stem cells and megakaryocyte progenitor cells. Name: IL11,AGIF,IL-11
Gene ID:	3589
UniProt:	P20809
Pathways:	JAK-STAT Signaling, Negative Regulation of Hormone Secretion

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid votex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1 % BSA, 5 % HSA, 10 % FBS or 5 % Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.
Buffer:	Lyophilized from a 0.22 μm filtered solution of 20 mM Tris, 150 mM NaCl, pH 8.0.
Storage:	-20 °C,-80 °C
Storage Comment:	Store the lyophilized protein at -20°C to -80 °C for long term. After reconstitution, the protein solution is stable at -20 °C for 3 months, at 2-8 °C for up to 1 week.