Datasheet for ABIN2667515

IL-27 Protein (AA 1-16, AA 29-243, Arg21)

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Overview

Quantity:	10 µg
Target:	IL-27 (IL27)
Protein Characteristics:	AA 1-16, Arg21, AA 29-243
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Flow Cytometry (FACS)

Product Details

Purity:	>95 % , as determined by Coomassie stained SDS-PAGE.
Sterility:	0.22 µm filtered
Endotoxin Level:	Less than 0.01 ng per µg cytokine as determined by the LAL method.

Target Details

Target:	IL-27 (IL27)
Alternative Name:	IL-27 (IL27 Products)
Background:	IL-27 is a heterodimeric cytokine that consists of EBI3, an IL-12p40-related protein, and p28, an IL-12p35-related polypeptide. IL-27 can be allocated to the IL-6/IL-12 superfamily of cytokines which also includes IL-23. This family is defined based on similarities in the structural motifs of the ligands, such as a common four-helix bundle and their receptors, which contain a

Target Details

	hematopoietin receptor domain. IL-27 signaling occurs via a receptor complex composed of the signal transducing receptor chains WSX-1 and glycoprotein (gp) 130. Whereas WSX-1 is the IL-27-specific receptor chain, gp130 is the common receptor subunit of IL-6 type cytokines. IL-27 is expressed at sites of inflammation in cytokine-driven autoimmune/inflammatory diseases, such as rheumatoid arthritis, psoriasis, inflammatory bowel disease, and sarcoidosis.
Molecular Weight:	The total predicted molecular weight is 50 kDa. The non-reduced and the DTT-reduced proteins migrate as one band at approximately 60 kDa by SDS-PAGE.

Application Details

Application Notes:	Optimal working dilution should be determined by the investigator.
Comment:	Biological activity: ED50 = 30 - 150 ng/ml, corresponding to a specific activity of 0.66 - 3.3 x 104 units/mg, as determined by mouse splenocytes IL-2 inhibition induced by hIL-27 in mouse splenocytes activated with anti-CD3 and anti-CD28 antibodies.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Reconstitution:	For maximum results, quick spin vial prior to opening. The protein can be aliquoted and stored from -20 °C to -70 °C. Stock solutions can also be prepared at 50-100 µg/mL in sterile buffer (PBS, HPBS, DPBS, or EBSS) containing carrier protein such as 0.2-1 % BSA or HSA and stored in working aliquots at -20 °C to -70 °C.
Buffer:	0.22 µm filtered protein solution is in 20 mM NaHPO4, pH 6, 0.60 M NaCl.
Handling Advice:	Avoid repeated freeze/thaw cycles.
Storage:	-20 °C
Storage Comment:	Unopened vial can be stored between 2°C and 8°C for one month, at -20°C for six months, or at -70°C for one year.

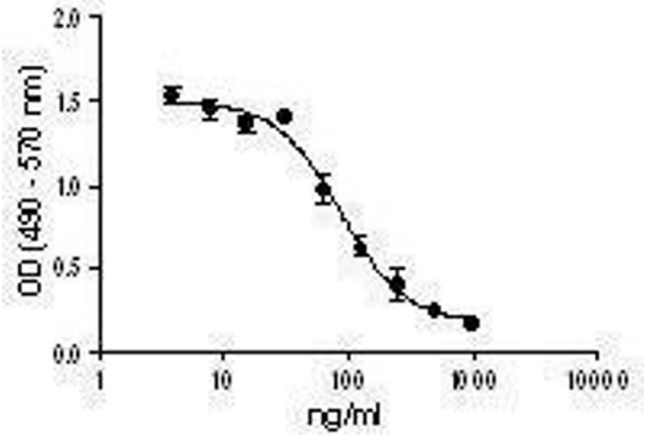

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Image 1.

