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Datasheet for ABIN7199488

IL-27 Protein (His-Avi Tag,Biotin)

Overview

Quantity:	200 µg
Target:	IL-27 (IL27)
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL-27 protein is labelled with His-Avi Tag,Biotin.

Product Details

Purpose:	Biotinylated Mouse IL-27 Protein, His,Avitag™
Sequence:	Tyr 19 - Pro 228 (IL-27B) & Phe 29 - Ser 234 (IL-27A)
Characteristics:	Biotinylated Mouse IL-27 Protein, His,Avitag (IL7-M82E4) is expressed from human 293 cells (HEK293). It contains AA Tyr 19 - Pro 228 (IL-27B) & Phe 29 - Ser 234 (IL-27A) (Accession # O35228-1 (IL-27B) & Q8K3I6-1 (IL-27A).
Purity:	>95 % as determined by SDS-PAGE.
Endotoxin Level:	Less than 1.0 EU per µg by the LAL method.

Target Details

Target:	IL-27 (IL27)
Alternative Name:	IL-27 (IL27 Products)
Background:	Synonyms: p28,IL30,IL-27,IL-27A,IL27p28,Interleukin-27,EBI3, Description: Interleukin-27 (IL-27) is a heterodimeric cytokine belonging to the IL-12 family that

Target Details

is composed of two subunits, Epstein-Barr virus (EBV)-induced gene 3 (EBI3) (also known as IL-27B) and IL27-p28 (known as IL-30). IL-27 is produced by antigen-presenting cells. IL-27 plays an important function in regulating the activity of B and T lymphocytes. The effects of IL-27 are elicited by its interaction with a specific cell surface receptor complex composed of two proteins known as IL27R and gp130. IL-27 is a cytokine with pro- and anti-inflammatory properties, that can regulate T helper cell development, suppress T-cell proliferation, stimulate cytotoxic T cell activity, induce isotype switching in B-cells, and that has diverse effects on innate immune cells. Among its target cells are CD4 T helper cells which can differentiate into type 1 effector cells (TH1), type 2 effector cells (TH2) and IL17 producing helper T-cells (TH17). It drives rapid clonal expansion of naive but not memory CD4 T-cells. IL-27 reveals to be a potent inhibitor of TH17 cell development and of IL-17 production. IL-27 also antagonizes the effects of some cytokines such as IL6 through direct effects on T cells. Another important role of IL-27 is its antitumor activity and antiangiogenic activity.

Molecular Weight:	52.2 kDa
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Application Details

Application Notes:	This protein carries a polyhistidine tag at the C-terminus, followed by an Avi tag (Avitag™). The protein has a calculated MW of 52.2 kDa. The protein migrates as 55 kDa (IL-27B) & 60 kDa (IL-27A) under reducing (R) condition due to glycosylation.
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Comment:	Ready-to-use Avitag™ biotinylated protein: The product is exclusively produced using the Avitag™ technology. Briefly, a unique 15 amino acid peptide, the Avi tag, is introduced into the recombinant protein during expression vector construction. The single lysine residue in the Avi tag is enzymatically biotinylated by the E. Coli biotin ligase BirA.
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This single-point enzymatic labeling technique brings many advantages for commonly used binding assays. The biotinylation happens on the lysine residue of Avi tag, and therefore does NOT interfere with the target protein's natural binding activities. In addition, when immobilized on an avidin-coated surface, the protein orientation is uniform because the position of the Avi tag in the protein is precisely controlled.

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
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Handling

Buffer:	20 mM MOPS, 150 mM NaCl, 0.05 % CHAPS, 1 mM EDTA, pH 7.0
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Storage:	-20 °C
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Storage Comment:	-20°C
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