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Datasheet for ABIN2018058
IL12 Protein (AA 23-215, AA 23-335)

Overview

Quantity:	50 µg
Target:	IL12
Protein Characteristics:	AA 23-215, AA 23-335
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.15 ng/mL, measured in a cell proliferation assay using 2D6 cells. AA 23-215 (p35) and AA 23-335 (p40), expressed with C-terminal 6xHis.
Purity:	> 95 % as analyzed by SDS-PAGE.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

Target Details

Target:	IL12
Alternative Name:	Interleukin-12 (IL-12) (IL12 Products)
Background:	Interleukin-12 (IL-12), also known as NKSF, TCMF, CLMF and TSF, is a heterodimeric cytokine composed of p35 and p40 subunits. It is produced by monocytes, macrophages, B cells and dendritic cells in response to bacterial lipopolysaccharides and intracellular pathogens. IL-12 signals through the IL-12 receptor complex, which is comprised of IL-12 Rbeta1 and IL-12

Target Details

Rbeta2. IL-12 induces the proliferation and activation of hematopoietic stem cells, natural killer cells and T- cells. It is indispensable during the development of Th1 cells, leading to the production of IFN-gamma and IL-2.

Synonyms: NKSF, TCMF, CLMF, TSF

Molecular Weight: 27-29 kDa (p35) and 45-50 kDa (p40), observed by reducing SDS-PAGE.

UniProt: [P43431](#), [P43432](#)

Pathways: [JAK-STAT Signaling](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#), [Regulation of Leukocyte Mediated Immunity](#), [Positive Regulation of Immune Effector Process](#), [Activated T Cell Proliferation](#), [Cancer Immune Checkpoints](#), [Inflammasome](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

Storage Comment: Lyophilized recombinant murine Interleukin-12 (IL-12), remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, murine Interleukin-12 (IL-12), His should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months