

Datasheet for ABIN1880414 **IL12 Protein**

[Go to Product page](#)

Overview

Quantity:	10 µg
Target:	IL12
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant

Product Details

Purity:	> 95 % by SDS-PAGE
---------	--------------------

Target Details

Target:	IL12
Alternative Name:	IL-12 (IL12 Products)

Background: Interleukin 12 (IL-12) is an interleukin that is naturally produced by dendritic cells, macrophages and human B-lymphoblastoid cells (NC-37) in response to antigenic stimulation. IL-12 is composed of a bundle of four alpha helices. It is a heterodimeric cytokine encoded by two separate genes, IL-12A (p35) and IL-12B (p40). The active heterodimer, and a homodimer of p40 are formed following protein synthesis. It plays a critical role in modulating the activities of natural killer (NK) cells and T lymphocytes. In animal models, IL-12 has potent antitumor effects that are likely mediated by its ability to enhance the cytotoxic activity of NK cells and cytotoxic T lymphocytes, and to induce the production of interferon (IFN)-gamma by NK and T cells.

Molecular Weight:	75 kDa
-------------------	--------

Pathways: [JAK-STAT Signaling](#), [TLR Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#),

Target Details

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: Reconstitute with sterile 18 mΩ/cm^3 H2O.

Buffer: 10 mM Phosphate buffer and 200 mM NaCl (pH 7.0)

Preservative: Without preservative

Storage: 4 °C