

Datasheet for ABIN7566183 **IL12 Protein (AA 23-328, AA 57-253) (His tag)**



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| Quantity: | 10 μg |
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| Target: | IL12 |
| Protein Characteristics: | AA 23-328, AA 57-253 |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Recombinant |
| Biological Activity: | Active |
| Purification tag / Conjugate: | This IL12 protein is labelled with His tag. |

Product Details

| Purpose: | IL-12 (human) (rec.) (His) |
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| Cross-Reactivity: | Human |
| Characteristics: | The human IL-12 complex composed of the p40 subunit (aa 23-328) and the p35 subunit (aa 57-253) is fused at the C-terminus through a (G3S)4 linker to a His-tag. |
| Purity: | >95 % (SDS-PAGE) |
| Sterility: | Sterile filtered |
| Endotoxin Level: | <0.01EU/μg protein (LAL test, Lonza). |
| Biological Activity Comment: The ED50 was determined by the induction of IFN-gamma from NK cells co-stimul 18 is < 1.0 ng/ml, corresponding to a specific activity of >1 x 106units/mg. | |

Target Details

| Target: | IL12 | |
|---------------------|---|--|
| Alternative Name: | IL-12 (IL12 Products) | |
| Background: | Interleukin-12, IL-12p70, IL-12p75, Cytotoxic Lymphocyte Maturation Factor, CLMF, NKSF, | |
| | Natural Killer Cell Stimulatory Factor, TSF, T-cell Stimulatory Factor | |
| | Interleukin-12 (IL-12), also known as Natural Killer Cell Stimulatory Factor (NKSF) or Cytotoxic | |
| | Lymphocyte Maturation Factor (CLMF), is a heterodimeric pleiotropic cytokine made up of a 40 | |
| | kDa (p40) subunit and a 35 kDa (p35) subunit. IL-12 is produced by macrophages and B | |
| | lymphocytes and has been shown to have multiple effects on T cells and Natural Killer (NK) | |
| | cells. Some of these IL-12 activities include the induction of IFN-gamma and TNF in resting and | |
| | activated T and NK cells, the enhancement of cytotoxic activity of resting NK and T cells, the | |
| | stimulation of resting T cell proliferation in the presence of a comitogen, and the enhancement | |
| | of NK cell proliferation. Current evidence indicates that IL-12 is a key mediator of cellular | |
| | immunity and induces the differentiation of Th1 cells from precursor T helper cells. Based on its | |
| | activities, it has been suggested that IL-12 may have therapeutic potential as a vaccine adjuvant | |
| | that promotes cellular immunity and as an antitumor and anti viral agent. | |
| Molecular Weight: | ~85kDa (SDS-PAGE) | |
| NCBI Accession: | NP_000873 | |
| 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 | |
| Buffer: | Lyophilized from 0.2µm-filtered solution in PBS. | |
| Handling Advice: | Avoid freeze/thaw cycles.Centrifuge lyophilized vial before opening and reconstitution.PBS | |
| | containing at least 0.1 % BSA should be used for further dilutions. | |
| Storage: | 4 °C,-20 °C | |
| Storage Comment: | Short Term Storage: +4°C | |
| | Long Term Storage: -20°C | |

Use & Stability: Stable for at least 1 year after receipt when stored at -20°C. Working aliquots are stable for up to 3 months when stored at -20°C.