

Active Recombinant Human EBI3&IL12A, MlgG2a Fc-tagged

Cat. No. EBI3&IL12A-122H **Lot. No.** (See product label)

SPECIFICATION

Product Overview The human IL-35 complex composed of the Ebi3 subunit(NP_005746.2) (Arg21-Lys229) and the IL-12a(p35) subunit (NP_000873.2)(Arg57-Ser253) is fused through a polypeptide linker to the Fc portion of mouse IgG2awas expressed in CHO cell

Species Human

Source CHO

ProteinLength 21-229;57-253 a.a.

Description

The gene EBI3 was identified by its induced expression in B lymphocytes in response Epstein-Barr virus infection. It encodes a secreted glycoprotein belonging to the hematopoietin receptor family, and heterodimerizes with a 28 kDa protein to form interleukin 27 (IL-27). IL-27 regulates T cell and inflammatory responses, in part by activating the Jak/STAT pathway of CD4+ T cells, while the other gene IL12A encodes a subunit of a cytokine that acts on T and natural killer cells, and has a broad array of biological activities. The cytokine is a disulfide-linked heterodimer composed of the 35-kD subunit encoded by this gene, and a 40-kD subunit that is a member of the cytokine receptor family. This cytokine is required for the T-cell-independent induction of interferon (IFN)-gamma, and is important for the differentiation of both Th1 and Th2 cells. The responses of lymphocytes to this cytokine are mediated by the activator of transcription protein STAT4. Nitric oxide synthase 2A (NOS2A/NOS2) is found to be required for the signaling process of this cytokine in innate immunity.

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Form	Lyophilized from 0.2µm-filtered solution in PBS.
Bio-activity	Bioactivity was measured in a cell proliferation assay using anti-CD3 activated human peripheral mononuclear cells.
Molecular Mass	75 KDa (monomer)
AA Sequence	The human IL-35 complex composed of the Ebi3 subunit(NP_005746.2) (Arg21-Lys229) and the IL-12a(p35) subunit (NP_000873.2)(Arg57-Ser253) is fused through a polypeptide linker to the Fc portion of mouse IgG2a.
Endotoxin	<0.06 eu/µg="" as="" determined="" by="" la="" test="">
Purity	>98%, by SDS-PAGE under reducing conditions.
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.
Reconstitution	Reconstitute at 100µg/ml in sterile PBS.
Warning	Avoid freeze/thaw cycles.

GENE INFORMATION

Gene Name	EBI3; IL12A
Official Symbol	IL35
Synonyms	P35; CLMF; NFSK; NKSF1; IL-12A;IL27B; IL-27B; EBI3; Epstein-Barr virus induced 3
Gene ID	10148; 3592

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mRNA Refseq	NM_000882& NM_005755
Protein Refseq	NP_005746& NP_000873
MIM	161560& 605816
UniProt ID	Q14213&P29459
Chromosome Location	3q25.33&19p13.3

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