



Datasheet for ABIN7317129
IL23 Protein (His tag)



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1 Image

Overview

Quantity:	100 µg
Target:	IL23
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active
Purification tag / Conjugate:	This IL23 protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human IL-23(IL23A&IL12B Heterodimer) Protein (His Tag)(Active)
Sequence:	Met 1-Pro189&Met 1-Ser 28
Characteristics:	A DNA sequence encoding the IL23A (Q9NPF7) (Met 1-Pro 189) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 1, A DNA sequence encoding the p40 subunit of human IL12, termed as IL12B (NP_002178.2) (Met 1-Ser 328) was fused with a polyhistidine tag at the C-terminus, constructed the plasmid 2. The two plasmids were co-expressed and the IL23 heterodimer was purified.
Purity:	> 90 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg as determined by the LAL method.
Biological Activity Comment:	1. Measured by its ability to bind biotinylated recombinant human IL12RB1 in a functional ELISA.2. Measured by its binding ability in a functional ELISA. Immobilized human IL23A-His+IL12B-His at 10 µg/ml (100 µl/well) can bind human IL23R-Fc. The EC50 of human IL23R-

Product Details

Fc is 0.28-0.66 µg/ml.³ Measured by its binding ability in a functional ELISA. Immobilized human IL23A-His+IL12B-His at 10 µg/ml (100 µl/well) can bind Cynomolgus IL23R-Fc. The EC50 of Cynomolgus IL23R-Fc is 0.14-0.35 µg/ml.⁴ Measured by its ability to induce IL17 secretion by mouse splenocytes. The ED50 for this effect is 4-20 ng/mL.

Target Details

Target: IL23

Alternative Name: IL-23 ([IL23 Products](#))

Background: Interleukin 23 (IL-23) is a heterodimeric cytokine composed of two disulfide-linked subunits, a p19 subunit that is unique to IL-23, and a p40 subunit that is shared with IL-12. The p19 subunit has homology to the p35 subunit of IL-12, as well as to other single chain cytokines such as IL-6 and IL-11. The p40 subunit is homologous to the extracellular domains of the hematopoietic cytokine receptors. Although p19 is expressed by activated macrophages, dendritic cells, T cells, and endothelial cells, only activated macrophages and dendritic cells express p40 concurrently to produce IL-23. IL-23 has biological activities that are similar to, but distinct from IL-12. Both IL-12 and IL-23 induce proliferation and IFN-gamma production by human T cells. While IL-12 acts on both naive and memory human T cells, the effects of IL-23 is restricted to memory T cells.

Synonym: SGRF,IL-23p19,CLMF p40,IL-12 subunit p40,NKSF2,IL-23,IL-23A,IL23P19,P19

Molecular Weight: 56.3 (20.1 + 36.2) kDa

Application Details

Restrictions: For Research Use only

Handling

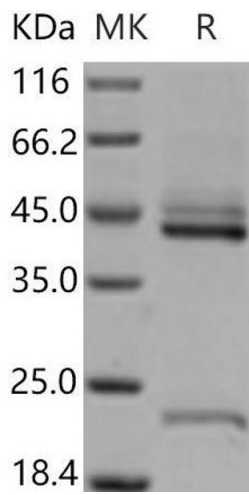
Format: Lyophilized

Reconstitution: Please refer to the printed manual for detailed information.

Buffer: Lyophilized from sterile PBS, pH 7.4

Storage: 4 °C,-20 °C,-80 °C

Storage Comment: Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.



Western Blotting

Image 1.