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Datasheet for ABIN6253339

IL23 Protein (AA 20-189, AA 23-328) (DYKDDDDK Tag)

Overview

Quantity:	10 µg
Target:	IL23
Protein Characteristics:	AA 20-189, AA 23-328
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This IL23 protein is labelled with DYKDDDDK Tag.

Product Details

Purpose:	IL-23 (human) (rec.)
Specificity:	Human IL-12p40 peptide (aa 23-328) is fused at the C-terminus to a 18 aa linker peptide (GSTSGSGKPGSGEGSTKG) and to the IL-23p19 peptide (aa 20-189) and fused at the N-terminus to a FLAG®-tag.
Characteristics:	<p>Protein. Human IL-12p40 peptide (aa 23-328) is fused at the C-terminus to a 18 aa linker peptide (GSTSGSGKPGSGEGSTKG) and to the IL-23p19 peptide (aa 20-189) and fused at the N-terminus to a FLAG®-tag. Source: HEK 293 cells. Endotoxin content: <0.06EU/µg purified protein (LAL test, Lonza). Lyophilized from 0.2µm-filtered solution in PBS. Purity: >90 % (SDS-PAGE). Interleukin-23 (IL-23) is a heterodimeric cytokine and a member of the IL-12 family involved in innate and adaptive immunity. It is composed of the IL-12 p40 chain covalently linked to p19, a chain related to the IL-12 p35 subunit. IL-23 signals through the IL-23 receptor complex, which is composed of the IL-12Rbeta1 chain and a gp130-like chain, IL-23R.</p> <p>Triggering of the IL-23 receptor complex leads to the activation of Tyk2, Jak2 and STAT1, 3 and</p>

Product Details

4. IL-23 induces IFN-gamma production, Th1 cell differentiation, and activation of the antigen-presenting functions of dendritic cells. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and important for tumorigenesis.

Purity: >90 % (SDS-PAGE)

Endotoxin Level: <0.06EU/μg purified protein (LAL test, Lonza).

Target Details

Target: IL23

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

Background: Alternate Names/Synonyms: Interleukin-23
Product Description: Interleukin-23 (IL-23) is a heterodimeric cytokine and a member of the IL-12 family involved in innate and adaptive immunity. It is composed of the IL-12 p40 chain covalently linked to p19, a chain related to the IL-12 p35 subunit. IL-23 signals through the IL-23 receptor complex, which is composed of the IL-12Rbeta1 chain and a gp130-like chain, IL-23R. Triggering of the IL-23 receptor complex leads to the activation of Tyk2, Jak2 and STAT1, 3 and 4. IL-23 induces IFN-gamma production, Th1 cell differentiation, and activation of the antigen-presenting functions of dendritic cells. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and important for tumorigenesis.

Molecular Weight: ~70kDa (SDS-PAGE)

UniProt: [Q9NPF7](#), [P29460](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

Concentration: Lot specific

Buffer: Lyophilized from 0.2μm-filtered solution in PBS.

Handling Advice: After opening, prepare aliquots and store at -20 °C. Avoid freeze/thaw cycles. PBS containing at least 0.1 % BSA should be used for further dilutions.

Storage: 4 °C, -20 °C

Handling

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.