



Interleukin-23, HEK, human recombinant (rHuIL-23-HEK)

Catalog No: 97502
Lot No: XXXXX
Source: HEK293
Synonyms: Interleukin 23 alpha subunit p19, Interleukin-12 subunit beta p40, SGRF, IL23P19, IL-23-A, interleukin-six, G-CSF related factor, JKA3 induced upon T-cell activation, interleukin 12B (natural killer cell stimulatory factor 2 cytotoxic lymphocyte maturation factor 2 p40), NK cell stimulatory factor chain 2, Cytotoxic lymphocyte maturation factor 40 kDa subunit, CLMF2, CLMF p40

Background

IL23 is composed of a subunit of the heterodimeric cytokine IL23 and the p40 subunit of interleukin 12 (IL12B). Interleukin-23 (IL-23) belongs to the IL-12 family and is produced by antigen presenting cells. IL-23 using IL12RB1 and IL-23R (specific for IL-23) can activate STAT and NF- κ B pathways and stimulate the production of interferon-gamma. IL-23 is known to take a vital part in the inflammation process and is associated with auto immune diseases. However, unlike IL12, which acts primarily on naive CD4(+) T cells, IL23 preferentially acts on memory CD4(+) T cells.

Description

IL-23 Human Recombinant produced in HEK cells is a 55 kDa heterodimeric protein composed of 2 disulfide-linked subunits – 19 kDa (p19) and 43 kDa (p40).

Physical Appearance

IL-23 is supplied as a sterile filtered White lyophilized (freeze-dried) powder.

Formulation

IL-23 was lyophilized from a 0.1 μ m filtered solution (1.05 mg/ml) containing 1xPBS.

Solubility

It is recommended to reconstitute the lyophilized IL23 in sterile 1xPBS containing 0.1% endotoxin-free recombinant HSA.

Stability

Lyophilized Interleukin-23, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution IL-23 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Purity

Greater than 95.0% as determined by analysis by SDS-PAGE.

Activity

The activity (ED₅₀), as determined by the dose dependent secretion of IL-17 in response to IL-23 using murine splenocytes, the is 1.9 ng/ml.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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