

Datasheet

Interleukin 23**Human Recombinant**

Product	Description	Catalogue-No.	Size
IL-23	Interleukin 23, human recombinant	CB-2130502	2 µg

Product description

Synonyms: Interleukin 23 alpha subunit p19, Interleukin 12 subunit beta p40, CLMF2, CLMF 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.

Interleukin 23 (IL-23) belongs to the IL-12 family and is produced by antigen presenting cells. IL-23 is composed of a subunit of the heterodimeric cytokine IL-23 and the p40 subunit of Interleukin 12 (IL-12B). Interleukin 23 (IL-23) belongs to the IL-12 family and is produced by antigen presenting cells. IL-23 using IL-12RB1 and IL-23R (specific for IL-23) can activate STAT and NF-κB 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 IL-12, which acts primarily on naive CD4(+) T cells, IL-23 preferentially acts on memory CD4(+) T cells.

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

Solubility and storage conditions

The lyophilized Interleukin 23 should be reconstituted in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

Composition

Lyophilized from a concentrated (480µg/ml) sterile solution containing 1x PBS.

Purity: Greater than 97.0% by RP-HPLC and SDS-PAGE.

Biological activity: The ED₅₀, as determined by the dose dependent secretion of h-IFN-g from human PBMC was found to be 2 to 20ng/ml.

Technical support

For technical support, questions or remarks please contact your local PAN-Biotech partner or the technical department of PAN-Biotech via email (info@pan-biotech.com) or phone +49-8543-601630.

FOR RESEARCH USE ONLY! Not approved for human or animal diagnostic or therapeutic procedures.