

Recombinant Human Interleukin-23 (rh IL-23)

Synonyms: SGRF, IL23P19, 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.

Introduction: 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-kB 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: Recombinant human IL-23 produced in HEK cells is a 55kDa heterodimeric protein composed of 2 disulfide-linked subunits - 19kDa (p19) and 43 kDa (p40). The IL-23 is purified by proprietary chromatographic techniques.

Source: HEK (*Human Embryonic Kidney cell line*)

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a 0.2 μ m filtered solution (1.28mg/ml) containing 1xPBS. The aliquots of 1 μ g and 2 μ g contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rh IL-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 SDS-PAGE.

Biological Activity: The activity, as determined by the dose dependent secretion of IL-17 in response to IL-23 using murine splenocytes, the ED50 is 2.8ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	2 μ g	Cat.N°	11340232
medium	10 μ g	Cat.N°	11340233

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