



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

Catalog No: 97503
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

Interleukin-23 human recombinant produced in HEK 293 cells is a heterodimer (IL23A co-transfected with IL12B), containing one polypeptide chain of IL23 protein (19.77 kDa) fused with a C-terminal His Tag and one polypeptide chain of IL12b-Flag (35.69 kDa). IL-23 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered clear solution.

Formulation

IL-23 His Tag protein is supplied in 50 mM Tris pH 7.5, 130 mM NaCl and 10% glycerol.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store frozen at -20°C for longer periods of time. Please avoid freeze thaw cycles.

Purity

Greater than 90.0% as determined by analysis by SDS-PAGE.

Amino Acid Sequence

IL23A-His :

RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGCDF QGLRDNSQFC LQRIHQGLIF
YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSQLLQPEG HHWETQQIPS LSPSQPWQRL LLRFKILRSL QAFVAVAAARV
FAHGAATLSP HHHHHHHH

IL12B-Flag :

IWELKKDVYV VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL
LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA ATLSAERVRG
DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV EVSWEYPDTW
STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYSSSSWSEW ASVPCSDYKD DDDK



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