

Human Interleukin-23 / IL23

Alternate names:	IL-23 subunit alpha, IL-23p19, IL-23p40, Interleukin-23 subunit p19, SGRF
Catalog No.:	AR20010PU-S
Quantity:	2 µg
Background:	IL-23 is a proinflammatory heterodimeric protein composed of two subunits, a unique p19 subunit and a p40 subunit, which is shared with IL-12. IL-23 is secreted by activated dendritic cells and macrophages, and signals through a receptor comprised of IL-23R complexed with IL-12Rβ2. IL-23 has been shown to enhance proliferation of memory T cells. It also stimulates the production of IFN-gamma in NK cells, induces IL-17 production, and drives Th17 mediated responses.
Uniprot ID:	Q9NPF7
NCBI:	NP_057668
GeneID:	51561
Species:	Human
Source:	Insect cells, (BTI-Tn-5B1-4)*
Format:	State: Lyophilized (0.2µ sterile filtered) purified protein. Purity: >95% pure by SDS-PAGE gel and HPLC analyses. Buffer System: 1x PBS, pH 7.2 Endotoxin Level: < 0.1 ng per µg (1EU/µg). Reconstitution: Restore in sterile water to a concentration of 0.5-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.
Applications:	Recombinant IL-23 is a 53.5 kDa heterodimeric protein consisting of two subunits, p19 (170 amino acids) and p40 (306 amino acids). Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	AA Sequence: p19 Subunit: RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGC DP QGLRDNSQFC LQRIHQGLIF YEKLLGSDIF TGEPSLLPDS PVQGLHASLL GLSLLQPEG HHWETQQIPS LSPSQPWQLL LLRFKILRSL QAFVAVARV FAHGAATLSP p40Subunit: IWELKKDVYV VELDWPDPAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK GGEVLSHSL L LHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WLLTTISTDL TFSVKSRRGS SDPQGVTCGA ATLSAERV RG DNKEYEYSVE CQEDSACPAA EESLPIEV MV DAVHKLKYEN YTSSFFIRDI IKPDPKKNLQ LKPLKNSRQV EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK

NASISVRAQD RYYSSSWSEW ASVPCS

Biological Activity: Measured by its ability to induce IL-17 secretion by mouse splenocytes.

Molecular weight: 53.3 kDa (170aa + 306 aa)

Add. Information: *Manufactured using BTI-Tn-5B1-4 cells under license from the Boyce Thompson Institute for Plant Research, Inc.

Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.