IL-23 Human (BTI-Tn-5B1-4) Hi-5 Insect cells*

Product Data Sheet

Type: Recombinant
Source: (BTI-Tn-5B1-4) Hi-5 Insect cells*
Species: Human
Other names: ,

Cat. No.:

RBG10023002	(2 µg)
RBG10023010	(10 µg)
RBG10023100	(100 µg)

Description

IL-23 is a proinflammatory, heterodimeric protein composed of two subunits: a unique p19 subunit, and a p40 subunit that is shared with IL-12. IL-23 is secreted by activated dendritic cells and macrophages, and signals though a receptor comprised of IL-23R complexed with IL-12Rbeta2. IL-23 has been shown to enhance proliferation of memory T cells. It also stimulates the production of IFN-? in NK cells, induces IL-17 production, and drives Th17-mediated responses. Recombinant Human IL-23 is a 53.5 kDa, heterodimeric protein consisting of the two subunits, p19 (170 amino acids) and p40 (306 amino acids).

Research topic

Asthma and allergic rhinitis, Immune Response, Infection and Inflammation, Oncology

Amino Acid Sequence

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RAVPGGSSPA WTQCQQLSQK LCTLAWSAHP LVGHMDLREE GDEETTNDVP HIQCGDGCDP QGLRDNSQFC LQRIHQGLIF
YEKLLGSDIF TGEPSLLPDS PVGQLHASLL GLSQLLQPEG HHWETQQIPS LSPSQPWQRL LLRFKILRSL QAFVAVAARV
FAHGAATLSP IWELKKDVYV VELDWYPDAP GEMVVLTCDT PEEDGITWTL DQSSEVLGSG KTLTIQVKEF GDAGQYTCHK
GGEVLSHSLL LLHKKEDGIW STDILKDQKE PKNKTFLRCE AKNYSGRFTC WWLTTISTDL TFSVKSSRGS SDPQGVTCGA
ATLSAERVRG DNKEYEYSVE CQEDSACPAA EESLPIEVMV DAVHKLKYEN YTSSFFIRDI IKPDPPKNLQ LKPLKNSRQV
EVSWEYPDTW STPHSYFSLT FCVQVQGKSK REKKDRVFTD KTSATVICRK NASISVRAQD RYYSSSWSEW ASVPCS
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Source

(BTI-Tn-5B1-4) Hi-5 Insect cells*

Purity

95%

Biological Activity

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

Endotoxin

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 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.

Storage, Stability/Shelf Life

-20°C

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