

Product datasheet

Recombinant human IL23 protein ab106889

Overview

Product name	Recombinant human IL23 protein
Protein length	Full length protein

Description

Nature	Recombinant
Source	BTI-TN-5B1-4 cells

Amino Acid Sequence

Accession [Q9NPF7](#)

Species Human

Sequence RAVPGGSSPAWTQCQQLSQKLCITLAWSAHPLVGHMDLREEGDEETTNDVP
 HIQCGDGCDPQGLRDNSQFCLQRIHQGLIFYEKLLGSDIFTGEPSSLPDS
 PVGQLHASLLGLSLLQPEGHHWETQQIPSLSPSQPWQRLLLRFKILRSL
 QAFVAVAAARVFAHGAATLSPWELKKDVYVVELDWYPDAPGEMVVLTCDT
 PEEDGITWTLDQSSEVLGSGKTLTIQVKEFGDAGQYCHKGGEVLSHSL
 LLHKKEDGIWSTDILKDQKEPKNKTFLRCEAKNYSGRFTCWWTITSTDL
 TFSVKSSRGSSDPQGVTCGAATLSAERVRGDNKEYEYSVECQEDSACPAA
 EESLPIEVMVDAVHKLKYENYTSFFIRDIIKPDPPKNLQLKPLKNSRQV
 EVSWEYPDTWSTPHSYFSLTFCVQVQGKSKREKKDRVFTDKTSATVICRK
 NASISVRAQDRYSSSWSEWASVPCS

Molecular weight	54 kDa
Additional sequence information	Recombinant Human IL-23 is a heterodimeric protein consisting of the two subunits, p19 (170 amino acids) and p40 (306 amino acids).

Specifications

Our [Abpromise guarantee](#) covers the use of **ab106889** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Biological activity Biological activity measured by the ability to induce IL-17 secretion by mouse splenocytes.

Applications SDS-PAGE
 Functional Studies

Endotoxin level < 0.100 Eu/μg

Purity	> 95 % SDS-PAGE. Purity greater than 95% by SDS-PAGE gel and HPLC analyses. Sterile filtered through a 0.2 micron filter.
Form	Lyophilised

Preparation and Storage

Stability and Storage	Shipped at 4°C. The lyophilized protein is stable for a few weeks at room temperature. Store at -20°C or -80°C. Avoid freeze / thaw cycle. Please see notes section. Preservative: None Constituents: 1X PBS, pH 7.2 This product is an active protein and may elicit a biological response in vivo, handle with caution.
Reconstitution	Centrifuge the vial prior to opening. Reconstitute in 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.

General Info

Function	Associates with IL12B to form the IL-23 interleukin, an heterodimeric cytokine which functions in innate and adaptive immunity. IL-23 may constitute with IL-17 an acute response to infection in peripheral tissues. IL-23 binds to an heterodimeric receptor complex composed of IL12RB1 and IL23R, activates the Jak-Stat signaling cascade, stimulates memory rather than naive T-cells and promotes production of proinflammatory cytokines. IL-23 induces autoimmune inflammation and thus may be responsible for autoimmune inflammatory diseases and may be important for tumorigenesis.
Tissue specificity	Secreted by activated dendritic and phagocytic cells and keratinocytes. Also expressed by dermal Langerhans cells (at protein level).
Sequence similarities	Belongs to the IL-6 superfamily.
Developmental stage	Expressed by newborns dendritic cells.
Cellular localization	Secreted. Secreted upon association with IL12B.

Please note: All products are "FOR RESEARCH USE ONLY AND ARE NOT INTENDED FOR DIAGNOSTIC OR THERAPEUTIC USE"

Our Abpromise to you: Quality guaranteed and expert technical support

- Replacement or refund for products not performing as stated on the datasheet
- Valid for 12 months from date of delivery
- Response to your inquiry within 24 hours
- We provide support in Chinese, English, French, German, Japanese and Spanish
- Extensive multi-media technical resources to help you
- We investigate all quality concerns to ensure our products perform to the highest standards

If the product does not perform as described on this datasheet, we will offer a refund or replacement. For full details of the Abpromise, please visit <https://www.abcam.com/abpromise> or contact our technical team.

Terms and conditions

- Guarantee only valid for products bought direct from Abcam or one of our authorized distributors