

IL-23 alpha & IL-12 beta Heterodimer Protein, Rat (HEK293, His)

Cat. No.:	HY-P73195
Synonyms:	IL-23 p19/IL-12 p40; IL23; IL-23A; Interleukin 23; SGRF
Species:	Rat
Source:	HEK293
Accession:	NP_569094.1 (V22-A196) & EDM04146.1 (M23-S335)
Gene ID:	155140&64546
Molecular Weight:	Approximately 23 & 43 & 48 kDa

PROPERTIES

AA Sequence

IL - 23 alpha

:

VPRSSSPDWA	QCQQLSRNLC	TLAWSAHTPV	GQMDLLREEG
EEETKSDVPR	IQCGDGC DPQ	GLKDNSQFCL	QRIRQGLVFY
KHL LDS DIFT	GEP SLLPDSP	VDQLHTSLLG	LSQLLQPEDH
HWETQQMPRL	SPSQWQWQ RSL	LR SKIL RSLQ	AFLAIAARVF
AHGAATLTPE	LVPTA		

IL - 12 beta :

MWELEKDVYV	VEVDWRPDAP	GETVTLTCD S	PEEDDITWTS
DQRRGVIGSG	KTLTITVREF	LDAGQYTCHR	GGETLSHSHL
LLHKKENG IW	STEILKNFKN	KTFLKCEAPN	YSGRFTCSWL
VHRNTDLKFN	IKSSSSSPES	RAVTCGAASL	SAEKVTLNQR
DYEKYSVACQ	EDVTCPTAEE	TLPIELVVEA	QQQNKYENYS
TSFFIRD I K	PDP PKNLQVK	PLKNSQVEVS	WEYPDSWSTP
HSYFSLKFFV	RIQRKKEKTK	ETEEECNQKG	AFLVEKTS AE
VQCKGANICV	QAQDRYYNSS	CSKWTCVPCR	GRS

Biological Activity

1. Measured by its ability to induce IL17 secretion by mouse splenocytes and the ED₅₀ is 0.5-3 ng/mL.
2. Measured by its ability to induce IL17 secretion by mouse CTLL-2 cells. The ED₅₀ for this effect is 4.136 ng/mL, corresponding to a specific activity is 2.41×10⁵ U/mg.

Appearance

Lyophilized powder.

Formulation

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Endotoxin Level

<1 EU/µg, determined by LAL method.

Reconstitution

It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

The IL-23 alpha protein is predicted to possess cytokine activity and contribute to the binding of interleukin-23 receptors. It is also predicted to be involved in various processes, including the positive regulation of cytokine production, lymphocyte activation, and peptidyl-tyrosine phosphorylation. Furthermore, it is anticipated to play a role upstream of T cell proliferation and in the positive regulation of transcription by RNA polymerase II. Located in the extracellular space, this protein is also predicted to be a component of the interleukin-23 complex. In terms of expression, it demonstrates bias toward the thymus (RPKM 15.2), spleen (RPKM 11.9), and nine other tissues. It shares orthology with the human IL23A gene, which is responsible for encoding the interleukin 23 subunit alpha.

Caution: Product has not been fully validated for medical applications. For research use only.

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