Proteins



IL-23 alpha (175a.a) & IL-12 beta (313a.a) Heterodimer Protein, Mouse (HEK293)

Cat. No.: HY-P70709

Synonyms: SGRF; IL-23p19; CLMF p40; IL-12 subunit p40; NKSF2

Species: Source: HEK293

Accession: Q9EQ14 (V22-A196)&P43432 (M23-S335)

Gene ID: 83430&16160

Molecular Weight: 18-27kDa&40-55 kDa

PROPERTIES

AA Sequence					
AA Sequence	V P R S S S P D W A	QCQQLSRNLC	MLAWNAHAPA	GHMNLLREEE	
	DEETKNNVPR	IQCEDGCDPQ	GLKDNSQFCL	QRIRQGLAFY	
	KHLLDSDIFK	GEPALLPDSP	MEQLHTSLLG	LSQLLQPEDH	
	PRETQQMPSL	SSSQQWQRPL	LRSKILRSLQ	AFLAIAARVF	
	AHGAATLTEP	L V P T A & M W E L	EKDVYVVEVD	WTPDAPGETV	
	NLTCDTPEED	DITWTSDQRH	GVIGSGKTLT	ITVKEFLDAG	
	QYTCHKGGET	LSHSHLLLHK	KENGIWSTEI	LKNFKNKTFL	
	KCEAPNYSGR	FTCSWLVQRN	MDLKFNIKSS	SSSPDSRAVT	
	CGMASLSAEK	VTLDQRDYEK	YSVSCQEDVT	CPTAEETLPI	
	ELALEARQQN	KYENYSTSFF	IRDIIKPDPP	KNLQMKPLKN	
	SQVEVSWEYP	DSWSTPHSYF	SLKFFVRIQR	KKEKMKETEE	
	GCNQKGAFLV	EKTSTEVQCK	GGNVCVQAQD	RYYNSSCSKW	
	ACVPCRVRS				
Biological Activity	Biological Activity Measured by its ability to induce IL17 secretion by mouse CTLL-2 cells. The ED ₅₀ for this effect is ≤ 20.75 ng/mL,				
	corresponding to a specific activity is $\geq 4.82 \times 10^4$ U/mg.				
Appearance	Lyophilized powder.				
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.				
Endotoxin Level	<1 EU/ μ g, determined by LAL method.				
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).				
Storage & Stability					
	recommended to freeze a	ommended to freeze aliquots at -20°C or -80°C for extended storage.			
Shipping	Room temperature in continental US; may vary elsewhere.				

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DESCRIPTION

Background

IL-23 alpha, as a crucial component, associates with IL12B to form the IL-23 interleukin, a heterodimeric cytokine playing key roles in both innate and adaptive immunity. Operating in peripheral tissues, IL-23, in conjunction with IL-17, constitutes an acute response to infections. It binds to a heterodimeric receptor complex composed of IL12RB1 and IL23R, activating the Jak-Stat signaling cascade, preferentially stimulating memory T-cells, and fostering the production of pro-inflammatory cytokines. This cytokine induces autoimmune inflammation, potentially contributing to autoimmune inflammatory diseases and playing a significant role in tumorigenesis. Released by antigen-presenting cells such as dendritic cells or macrophages, IL-23 binds to its receptor complex, initiating signaling pathways that activate various cellular responses, including the production of interleukin-17A/IL17A and promoting early and effective intracellular bacterial clearance. Additionally, IL-23 supports the expansion and survival of T-helper 17 cells, a CD4-positive helper T-cell subset known for producing IL-17, along with other IL-17-producing cells.

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

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