

Product Data Sheet

IL-12 Protein, Human (HEK293, His, Flag)

Cat. No.:	HY-P700462		
Synonyms:	Cytotoxic lymphocyte maturation factor; CLMF; IL-12; NK cell stimulatory factor; NKSF		
Species:	Human		
Source:	HEK293		
Accession:	P29460 (I23-S328)&P29459 (R23-S219)		
Gene ID:	3593&3592		
Molecular Weight:	39.7 kDa & 27.2 kDa		

PROPERTIES

AA Sequence						
·	IWELKKDVYV	VELDWYPDAP	GEMVVLTCDT	PEEDGITWTL		
	DQSSEVLGSG	KTLTIQVKEF	G D A G Q Y T C H K	G G E V L S H S L L		
	LLHKKEDGIW	STDILKDQKE	PKNKTFLRCE	AKNYSGRFTC		
	WWLTTISTDL	T	SDPQGVTCGA	ATLSAERVRG		
	DNKEYEYSVE	CQEDSACPAA	EESLPIEVMV	DAVHKLKYEN		
	YTSSFFIRDI	IKPDPPKNLQ	LKPLKNSRQV	EVSWEYPDTW		
	STPHSYFSLT	F C V Q V Q G K S K	REKKDRVFTD	КТЅАТѴІСҠК		
	NASISVRAQD	R Y Y S S S W S E W	A S V P C S & R N L	P V A T P D P G M F		
	P C L H H S Q N L L	R A V S N M L Q K A	RQTLEFYPCT	SEEIDHEDIT		
	К К К Т К Т К Е А С	LPLELTKNES	CLNSRETSFI	T N G S C L A S R K		
	T S F M M A L C L S	SIYEDLKMYQ	VEFKTMNAKL	LMDPKRQIFL		
	DQNMLAVIDE	LMQALNFNSE	Τ V P Q K S S L E E	PDFYKTKIKL		
	CILLHAFRIR	AVTIDRVMSY	LNAS			
Annon 100 000	Luonhilized neudor					
Appearance	Lyophilized powder.					
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0					
Endotoxin Level	<1 EU/µg, determined by LAL method.					
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.					
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.					
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Shipping	Room temperature in continental US; may vary elsewhere.					

DESCRIPTION

Background

IL-12 beta Protein, a multifunctional cytokine, serves as a growth factor for activated T and NK cells, amplifies the lytic activity of NK/lymphokine-activated killer cells, and induces the production of IFN-gamma by resting peripheral blood mononuclear cells (PBMC). When combined with IL23A, it forms the heterodimeric cytokine IL-23, which plays a pivotal role in both innate and adaptive immunity. This cytokine acts by binding to a receptor complex consisting of IL12RB1 and IL23R, initiating the Jak-Stat signaling cascade. Notably, IL-23 preferentially activates memory T-cells over naive T-cells and fosters the production of pro-inflammatory cytokines. The association of IL-23 with autoimmune inflammation suggests its potential involvement in autoimmune inflammatory diseases and underscores its significance in tumorigenesis.

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

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