

## IL-12 beta Protein, Cynomolgus (HEK293, His)

Cat. No.:	HY-P701009
Synonyms:	IL-12B; CLMF p40; IL-12 subunit p40; NKSF2; CLMF; CLMF2; NKS
Species:	Cynomolgus
Source:	HEK293
Accession:	A0A2K5TM36 (I23-S328)
Gene ID:	102124858
Molecular Weight:	40-50 kDa

### PROPERTIES

Biological Activity	Immobilized Cynomolgus IL-12B, His Tag at 0.2µg/ml (100µl/well) on the plate. Dose response curve for Anti-IL-12 Antibody, hFc Tag with the EC <sub>50</sub> of 5.7ng/ml determined by ELISA.
Appearance	Solution.
Formulation	Supplied as a 0.22µm filtered solution of PBS, pH 7.4.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	N/A.
Storage & Stability	Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.
Shipping	Shipping with dry ice.

### DESCRIPTION

Background	The IL-12 beta Protein partners with IL23A, forming the IL-23 interleukin, a heterodimeric cytokine with essential functions in both innate and adaptive immunity. In conjunction with IL-17, IL-23 may orchestrate an immediate response to infection in peripheral tissues. Through binding to a heterodimeric receptor complex comprising IL12RB1 and IL23R, IL-23 initiates the Jak-Stat signaling cascade, preferentially stimulating memory T-cells over naive T-cells, and fostering the production of pro-inflammatory cytokines. Implicated in the induction of autoimmune inflammation, IL-23 may play a crucial role in autoimmune inflammatory diseases and tumorigenesis. Additionally, this cytokine acts as a growth factor for activated T and NK cells, amplifies the lytic activity of NK/lymphokine-activated killer cells, and triggers the production of IFN-gamma by resting PBMC.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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