

Catalog Number: HZ-1321

Data Sheet

**HumanKine® recombinant human IL-12 beta protein**



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

**Product Description**

IL-12p40, also known as IL-12B, is a subunit of both the IL-12 and IL-23 cytokines. It is not thought to be bioactive on its own, but it has been shown to regulate IL-12 activity in antagonistic manner by competitively binding with the IL-12 receptor. IL-12p40 also functions as a chemoattractant molecule for macrophage infiltration into tumor sites. There has additionally been evidence to suggest that IL-12p40 mediates a protective immune response against mycobacterial infection by serving as a necessary component for granuloma formation and promoting Th1 effector cell functions (PMID: 17126601, 10453037, 11739515).

**Alternative Names** Interleukin-12 subunit beta (IL-12B) Cytotoxic lymphocyte maturation factor (CLMF p40), IL-12 subunit p40, NK cell stimulatory factor chain 2 (NKSF2)

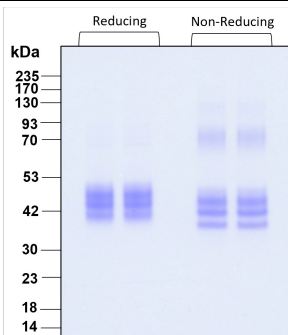
**Source** Human Embryonic Kidney cells (HEK293), HEK293-derived IL-12 beta protein

**Species Reactivity** human

**Specifications**

Test	Method	Specification
Activity	Inquire	Inquire
Molecular Mass	SDS-PAGE	37-50 kDa reduced, 37 to 47, 65 to 95, and 125 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	> 95%
Endotoxin	LAL	< 0.1 EU/ug

**SDS-PAGE**



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Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS pH 7.4
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.

Stability and Storage	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
	Lyophilized	Room Temperature	2 weeks
	Reconstituted as per CofA	-20°C to -80°C	6 months
	Reconstituted as per CofA	4°C	1 week
Avoid repeated freeze-thaw cycles.			

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