

HumanKine® IL-12 beta (Recombinant Human)



Animal Component-Free	Human cell expressed	Tag-Free	Endotoxin Free
-----------------------	----------------------	----------	----------------

Product Description

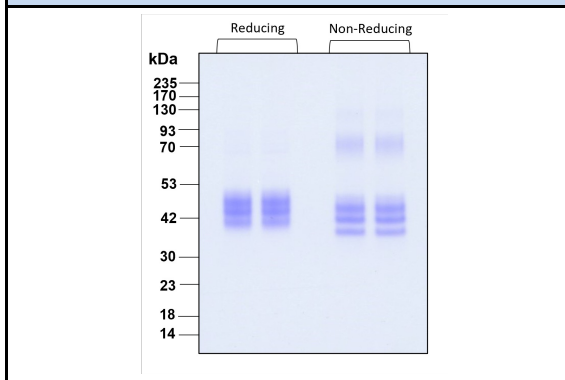
IL-12p40, also known as IL-12B, is a subunit of both the IL-12 and IL-23 cytokines. It is not thought to be bioactive on its own, but it has been shown to regulate IL-12 activity in antagonistic manner by competitively binding with the IL-12 receptor. IL-12p40 also functions as a chemoattractant molecule 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



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 in sterile 1xPBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA).

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.			

www.ptglab.com

Document #: FR-QA118-101 Rev 0
Data Sheet Version #: 1

Proteintech Group, Inc.
5500 Pearl Street, Suite 400 Rosemont, IL 60612
t: 1-888-478-4522; f: 1-312-455-8408
Email: proteintech@ptglab.com