

Catalog Number: HZ-1256

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

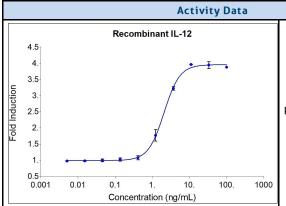
Endotoxin Free

Product Description

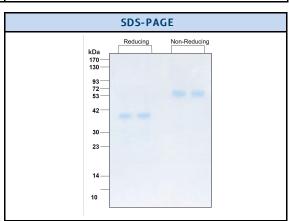
Animal-free Recombinant Human IL-12 is expressed in human 293 cells as a heterodimeric cytokine composed of two glycosylated and disulfide-linked subunits (p40 cysteine-linked to p35). Production in human 293 cells uses a serum-free, chemically defined media and offers authentic glycosylation. IL-12 is a potent regulator of cell mediated immune responses and it induces IFN-gamma production by NK and T cells. It is produced by activated monocytes/macrophage cells, B lymphocytes, and connective tissue type mast cells.

Alternative Names	CLMF, CLMF p35, IL 12 subunit p35, IL 12A, IL12, IL-12, IL12A, Interleukin 12 subunit alpha, NFSK, NKSF1, P35				
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-12 protein				
Species Reactivity	human,mouse				

Specifications					
Test	Method	Specification			
Activity	Dose-dependent induction of alkaline phosphatase production in a HEK293 reporter cell line.	0.8-4 ng/mL			
Molecular Mass	SDS-PAGE	34 and 42 kDa reduced, 57 kDa non-reduced, heterodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



Recombinant human IL-12
(HZ-1256) stimulates dosedependent induction of
alkaline phosphatase
production in a HEK293
reporter cell line. Alkaline
phosphatase production was
assessed using pNPP as a
chromogenic substrate. The
EC50 was determined using
a 4-parameter non-linear
regression model. The EC50
values range from 1-5
ng/mL.



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

Proteintech Group, Inc.

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Preparation				
Shipping Temperature	ambient temperature			
Formulation 1x PBS, See Certificate of Analysis for details				
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.			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)
	Lyophilized	-20°C to -80°C	Until Expiry Date
Stability and Storage	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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