

Catalog Number: HZ-1316

Data Sheet





Animal Component-Free

Human cell expressed

Tag-Free

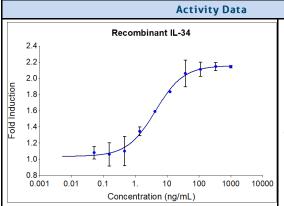
Endotoxin Free

Product Description

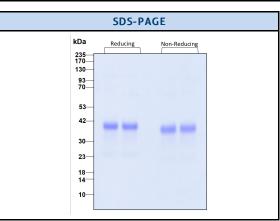
IL-34 is a 6-a-helix, proinflammatory cytokine that serves as a ligand for colony-stimulating factor-1 receptor (CSF1R). It is expressed most abundantly by spleen cells. It primarily stimulates human peripheral blood monocyte proliferation and macrophage colony formation. It is also required for Langerhans cell and microglia development. IL-34 has been shown to play a protective role in cancer and Alzheimer's disease, but it can promote the progression of several autoimmune, inflammatory, and metabolic diseases. As such IL-34 could be used as a biomarker to mark the progression of these diseases (PMID: 22579672, 27577879, 31940023).

Alternative Names	IL34, Interleukin-34, C16orf77, MGC34647	
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-34 protein	
Species Reactivity	human	

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of proliferation in peripheral blood mononuclear cells (PBMCs)	2-12 ng/mL EC50			
Molecular Mass	SDS-PAGE	38 kDa reduced, 36 and 68 kDa non-reduced, homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			



Recombinant IL-34 (HZ-1316) stimulates dosedependent proliferation of PBMCs. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. PBMCs were treated with increasing concentrations of IL-34 for 6 days. The EC50 was determined using a 4-parameter non-linear regression model. The EC50 range is 2-12 ng/mL.



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Data Sheet Version #: 1

Proteintech Group, Inc.

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Preparation				
Shipping Temperature	ambient temperature			
Formulation	1 x PBS, See Certificate of Analysis for details			
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile $1x$ PBS pH $7.4 \pm 0.1\%$ 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.		

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