

HumanKine® IL-15 (Recombinant Human)



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

Product Description

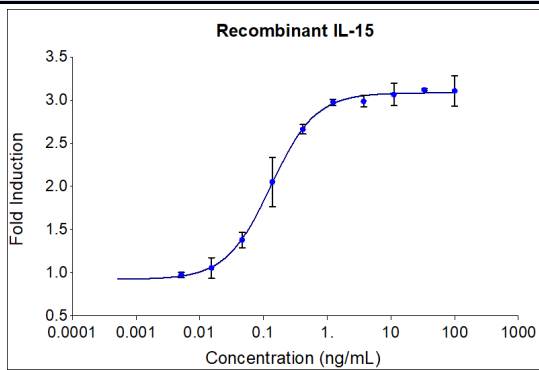
IL-15 is a 4- α -helix bundle cytokine playing a pivotal role in stimulation of both innate and adaptive immune cells. It is produced primarily by keratinocytes, skeletal muscle cells, monocytes, and CD4+ T cells. It is a member of the common gamma chain family. The members of the common gamma chain family include the IL-2, IL-4, IL-7, IL-9, and IL-21 and require binding to the common γ chain receptor for activation. It can be used in growth and maintenance of T and NK cells. It is also shown to be used in proliferation and functional effect of T cells for adoptive cell therapy. It is a glycosylated protein and HumanKine IL-15 appear as 12.5-25 kDa bands (PMID: 24587813, 26627006, 27849617, 31250350).

Alternative Names	Interleukin 15, IL15, IL-15MGC9721, Interleukin-15
Source	Human Embryonic Kidney cells (HEK293). HEK293-derived IL-15 protein
Species Reactivity	human,mouse,rat

Specifications

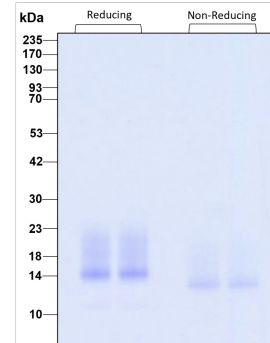
Test	Method	Specification
Activity	Dose-dependent proliferation of the NK-92 human natural killer cell line.	0.07-0.37 ng/mL EC50 for NK-92 bioassay.
Molecular Mass	SDS-PAGE	12 to 24 kDa reduced, 11 to 23 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/ μ g

Activity Data



Recombinant human IL-15 (Cat no: HZ-1323) stimulates dose-dependent proliferation of the NK-92 human natural killer cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. NK-92 cells were treated with increasing concentrations of recombinant IL-15 for 72 hours. The EC50 was determined using a 4-parameter non-linear

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	50 mM Acetate pH 4.0 + 150mM NaCl
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile 1x PBS 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