

HumanKine® recombinant human IL-23 protein



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

Animal-free Recombinant Human IL-23 is expressed in human 293 cells as a heterodimeric glycoprotein composed of two disulfide-linked subunits (p40 cysteine linked to p19). IL-23 has been shown to enhance proliferation of memory T cells. It also stimulates the production of IFN-gamma in NK cells, induces IL-17 production, and drives Th17 mediated responses. Furthermore, it is known that IL-23 takes a vital part in the inflammation process and that it is associated with auto immune diseases.

Alternative Names

IL 23, IL 23 A, IL 23 subunit alpha, IL 23A, IL 23p19, IL23, IL-23, IL23A, IL23P19, Interleukin 23 subunit alpha, Interleukin 23 subunit p19, P19, SGRF

Source

Human Embryonic Kidney cells (HEK293). HEK293-derived IL-23 protein

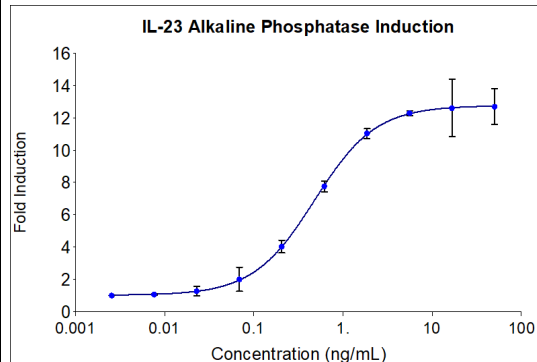
Species Reactivity

human,mouse

Specifications

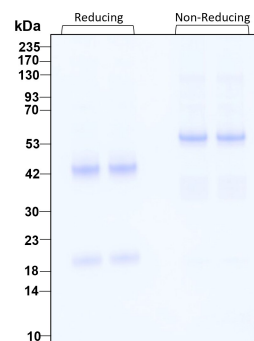
Test	Method	Specification
Activity (EC50)	Dose-dependent secretion of IL-17 in response to IL-23 using murine splenocytes	0.2-1.2 ng/mL in HEK293 reporter cell line, 1.25-6.5 ng/mL in murine splenocytes
Molecular Mass	SDS-PAGE	20 and 42 kDa reduced, 53 kDa non-reduced, heterodimer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<1 EU/μg

Activity Data



Recombinant human IL-23 (HZ-1254) stimulates dose-dependent 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 0.2-1.2 ng/mL.

SDS-PAGE



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.

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

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