

HumanKine® IL-8 (Recombinant Human)



Animal Component-Free

Human cell expressed

Tag-Free

Endotoxin Free

Product Description

IL-8 is a chemoattractant cytokine that signals through the CXCR1 and CXCR2 receptors to attract and activate neutrophils to sites of inflammation. It is secreted by multiple types of cells, including monocytes, neutrophils, tumor, epithelial, endothelial, and fibroblasts. IL-8 signaling activates downstream pathways that promote cell survival, proliferation, and cell invasiveness. As such, IL-8 has been linked to the promotion of angiogenesis, immunosuppressive cell recruitment, and EMT transition in several cancer types. Recent studies also indicate that IL-8 can serve as a marker for COVID-19 disease progression (PMID: 22235381, 18980965, 26548401, 33584733).

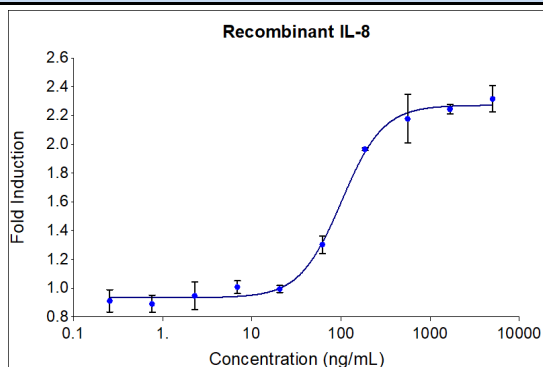
Alternative Names CXCL8, CXCL8SCYB8, interleukin 8, IL8, AMCF-I, C-X-C motif chemokine 8, NAF, NAP1, NCF GCP1, GCP-1, TSG-1, K60, LAI, LECT, LUCT, T cell chemotactic factor, T-cell chemotactic factor, TCF, TSG1, Neutrophil-activating protein 1

Source Human Embryonic Kidney cells (HEK293). HEK293-derived IL-8 protein

Specifications

Test	Method	Specification
Activity	Dose-dependent stimulation of proliferation in the THP-1 monocyte cell line	100-500 ng/mL
Molecular Mass	SDS-PAGE	11 kDa reduced, 12 kDa non-reduced, monomer, glycosylated
Purity	SDS-PAGE	>95%
Endotoxin	LAL	<0.1 EU/μg

Activity Data



Recombinant human IL-8 (HZ-1318) stimulates dose-dependent proliferation of the THP-1 human monocyte cell line. Cell number was quantitatively assessed by PrestoBlue® Cell Viability Reagent. THP-1 cells were treated with increasing concentrations of recombinant IL-8 for 144 hours. The EC₅₀ was determined using a 4-parameter non-linear regression model. The EC₅₀

SDS-PAGE



Preparation	
Shipping Temperature	ambient temperature
Formulation	1x PBS
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. 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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