

Recombinant Rhesus Macaque Interleukin-8/CXCL8

(Rhesus Macaque IL-8/CXCL8)

Product Information

Product Name	Cat#	Size
	90901ES08	5 µg
Recombinant Rhesus Macaque Interleukin-8/CXCL8 (Rhesus Macaque IL-8/CXCL8)	90901ES60	100 µg
	90901ES76	500 µg

Product Description

Interleukin-8 (IL-8), also known as CXCL8, GCP-1, and NAP-1, is a widely expressed proinflammatory member of the CXC family of chemokines. Near its N-terminus, this 8-9 kDa chemokine contains an ELR motif which is important for its angiogenic properties. IL-8/CXCL8 can associate into a homodimer or a heterodimer with CXCL4/PF4, and it can also interact with matrix and cell surface glycosaminoglycans. Mature human IL-8/CXCL8 shares 65%-69% amino acid (aa) sequence identity with canine, feline, and porcine IL-8/CXCL8. There is no IL-8/CXCL8 gene counterpart in rodent. N-terminal truncation by multiple proteases generates a range of shorter forms, and an alternative splice form of human IL-8/CXCL8 carries an eleven aa substitution at the C-terminus. The bioactivity of IL-8/CXCL8 is regulated by these truncations, by IL-8/CXCL8 citrullination at Arg5 (N-terminal to the ELR motif), and by the decoy receptor DARC. IL-8/CXCL8 effects are mediated through CXCR1/IL-8 RA, which is also used by CXCL6, and through CXCR2/IL-8 RB, which is used by multiple CXC chemokines. CXCR1 and CXCR2 associate into functional homodimers and heterodimers with each other. Through both CXCR1 and CXCR2, CXCL8 promotes neutrophil adhesion to the vascular endothelium and migration to sites of inflammation. It triggers the antimicrobial activation of neutrophils through CXCR1.

Product Properties

Synonyms	IL8,CXCL8
Accession	P67813
GeneID	613028
Source	E.coli-derived Rhesus Macaque IL-8,Ala23-Pro101.
Molecular Weight	Approximately 9.14 kD.
AA Sequence	AVLPRSAKEL RCEIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSG GRELCLDPKE PWVQRVVEKF VKRAENQNP
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 0.5-5.0 ng/mL.
Endotoxin	< 1 EU per 1µg of the protein by the LAL method.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $\leq -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

Cautions

1. Avoid repeated freeze-thaw cycle.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.