

Product Datasheet

Recombinant IL-8(77aa)/CXCL8, Human (orb1494813)

Description	Interleukin-8 is one of the first discovered chemokines and belongs to the CXCL family, in which the first two conserved cysteines are separated by one residue. In vivo, IL-8 exists in two forms: a 77 a.a. protein produced by endothelial cells, and the more active 72 a.a. protein produced by monocytes. The receptors for IL-8 are the seven-helical G-protein coupled receptors CXCR1 and CXCR2, exclusively expressed on neutrophils. The functions of IL-8 are to induce rapid changes in cell morphology, activate integrins, and release the granule contents of neutrophils. Thus, IL-8 can enhance the antimicrobial actions of defense cells. Recombinant human Interleukin-8 (IL-8, 77aa)/CXCL8 produced in E. coli is a single non-glycosylated polypeptide chain containing 77 amino acids. A fully biologically active molecule, rhIL-8(77aa)/CXCL8 has a molecular mass of 8.9 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.
Endotoxins	< 0.2 EU/μg, determined by LAL method.
Preservatives	Lyophilized after extensive dialysis against PBS.
Form/Appearance	Lyophilized after extensive dialysis against PBS.
Storage	Lyophilized recombinant human Interleukin-8 (IL-8)(77aa)/CXCL8 remains stable up to 6 months at -80°C from date of receipt. Upon reconstitution, recombinant human Interleukin-8 (IL-8)(77aa)/CXCL8 should be stable up to 1 week at 4°C or up to 2 months at -20°C.
Note	For research use only
Application notes	Reconstituted in ddH ₂ O or PBS at 100 μg/ml.
Protein Sequence	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCLDPKE NWWQRVVEKF LKRAENS
Purity	> 95% as analyzed by SDS-PAGE.
Source	Escherichia coli.

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MW 8.9 kDa, observed by reducing SDS-PAGE.

Expiration Date 6 months from date of receipt.

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