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Zuschläge

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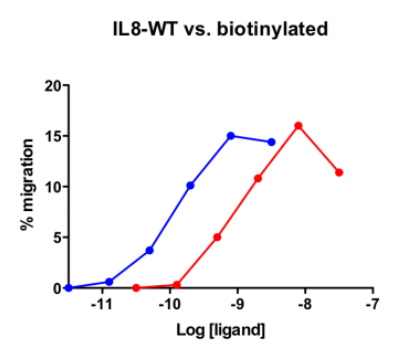
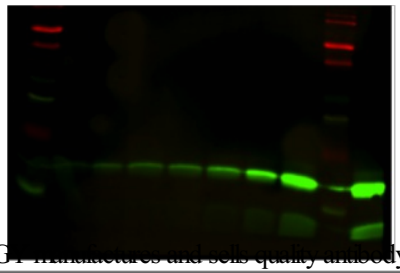
Biotinylated CXCL8 Protein (OPCB00013)

Data Sheet

Product Number	OPCB00013
Product Page	www.avivasysbio.com/biotinylated-cxcl8-protein-opcb00013.html
Name	Biotinylated CXCL8 Protein (OPCB00013)
Molecular Weight	11 kDa
Conjugation	Biotin
NCBI Gene Id	3576
Purity	> 97% as determined by SDS-PAGE
Source	E. coli
Gene Full Name	chemokine (C-X-C motif) ligand 8
Alias Symbols	IL8, NAF, GCP1, LECT, LUCT, NAP1, GCP-1, LYNAP, MDNCF, MONAP, NAP-1, SCYB8
Product Format	**Lyophilized**
Reference	1. "Interleukin-8, a chemotactic and inflammatory cytokine" Baggiolini M., Clark-Lewis I. FEBS Lett. 307:97-101(1992) 2. "Molecular cloning of a human monocyte-derived neutrophil chemotactic factor (MDNCF) and the induction MDNCF mRNA by interleukin 1 and tumor necrosis factor" Matsushima K., Morishita K., Yoshimura T., Lavu S., Kobayashi Y., Lew W., Appella E., Kung H., Leonard E.J., Oppenheim J.J. J. Exp. Med. 167:1883-1893(1988) 3. "Chemokines, CXC|IL-8" Strieter R.M., Keane M.P., Belperio J. A. Encyclopedia of respiratory medicine, Academic Press, Oxford, P395-398(2006)
Description of Target	Interleukin 8 (IL-8)(CXCL8) is secreted primarily by macrophages and monocytes. It is one of the key mediators for inflammatory responses. IL-8 is a strong chemotractant for newtrophiles and monoccytes, and promotes activation of these target cells by binding to two cell surface receptors CXCR1 and CXCR2. It is also a strong angiogenic agent, and is considered to play a role in the pathogenesis of bronchiolitis. Biotinylated CXCL8 is made using the enzymatic method, which has several advantages over chemical biotinylation methods. The attachment of biotin at a specific lysine residue is nearly 100% complete, and leads to a modified chemokine with functionalities comparable to those of the unmodified CXCL8 in migration assay. Utilizing avidin/streptavidin analogues conjugated to various fluorescent labels, biotinylated CXCL8 is useful in studies on receptor identification, distribution, chemokine binding, and other cellular assays. They serve as great tools in visualization and quantification, and can replace radioactively labeled chemokines.
Reconstitution and Storage	Spin tube prior to resuspending. Reconstitution is recommended at 100 ug/mL in sterile water. Stable at least 1 month at -20C to -70C under sterile conditions after reconstitution; 12 months from date of receipt, -20C to -70C as supplied. Suggested to use immediately after reconstitution. Avoid repeated freeze/thaw cycles.
Datasheets/Manuals	Printable datasheet for Biotinylated CXCL8 Protein (OPCB00013)
Additional Information	**Extinction Coefficient:** 12,900 M-1 cm-1 **Endotoxin Level:** <0.01 EU per 1ug of the protein by the LAL method.
Biological Activity	EC50 = 0.5-1nM determined by Migration Assay in cells expressing recombinant CXCR1
Uniprot ID	P10145
Gene Symbol	CXCL8
Application	CA, SDS-PAGE

Image 1	**Chemokine Induced Migration** 	Chemokine Induced Migration Cells expressing recombinant CXCR1 were assayed for migration through the transwell bare filter at various concentrations of IL-8. The response is expressed as the % of total input cells (Blue: wild type; Red: biotinylated).
Image 2	**CXCL8-Biotin Detection on PAGE Gel** 	CXCL8-Biotin Detection on PAGE Gel Detection of various amounts (1-62 ng) of Biotinylated-CXCL8 with streptavidin conjugated to 800CW dye (LiCOR).

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