

Recombinant Human IL-8 (77a.a.)(rHu IL-8/CXCL8)

Catalog No: #701082

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Description

Product Name	Recombinant Human IL-8 (77a.a.)(rHu IL-8/CXCL8)
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	> 96 % by SDS-PAGE and HPLC analyses.
Target Name	rHu IL-8 CXCL8
Other Names	CXCL 8, Emotakin, GCP-1, MDNCF, MONAP, NAP-1, Protein 3-10C, T-cell chemotactic factor
Accession No.	accession:P10145 GeneID:3576
Uniprot	P10145
GeneID	3576;
Calculated MW	Approximately 8.9 kDa, a singl
SDS-PAGE MW	Sterile Filtered White lyophil
Target Sequence	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSL GRELCLDPKE NWWQRVVEKF LKRAENS
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Storage	This lyophilized preparation is stable at 2-8 °C, but should be kept at -20 °C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 °C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 °C to -70 °C. Avoid repeated freeze thaw cycles.

Background

Interleukin-8 (IL-8) is encoded by the IL8 gene and produced by macrophages and other cell types such as epithelial cells. It is also synthesized by endothelial cells, which store IL-8 in their storage vesicles. There are many receptors capable to bind IL-8, the most affinity to IL-8 are receptors CXCR1, and CXCR2. As a member of the CXC chemokine family, function of IL-8 is the induction of chemotaxis in its target cells, like neutrophil granulocytes, basophils, and T-cells. IL-8 (72a.a.) has a 5-10fold higher activity on neutrophil activation, compared to IL-8 (77a.a.). IL-8 is often associated with inflammation, it has been cited as a proinflammatory mediator in gingivitis and psoriasis.

References

1. Modi WS, Dean M, Seuanes HN, et al. 1990. Hum Genet. 84:185-7.
2. Wolff B, Burns AR, Middleton J, et al. 1998. J Exp Med. 188:1757-62.
3. Utgaard JO, Jahnsen FL, Bakka A, et al. 1998. J Exp Med. 188:1751-6.
4. Van Damme J, Rampart M, Conings R, et al. 1990. Eur J Immunol. 20:2113-8.

Note: This product is for in vitro research use only