

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

Product Information

Product Name	Cat#	Size
Recombinant Human Interleukin-8, 77aa/CXCL8 (Human IL-8,77aa/CXCL8)	90190ES08	5 µg
	90190ES60	100 µg
	90190ES76	500 µg

Product Description

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 (77a.a.) has a 5-10 fold 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.

Product Properties

Synonyms	CXCL 8, Emotakin, GCP-1, MDNCF, MONAP, NAP-1, Protein 3-10C, T-cell chemotactic factor
Accession	P10145
GeneID	3576
Source	E.coli-derived human IL-8 protein, Ala23-Ser99.
Molecular Weight	Approximately 8.9 kDa.
AA Sequence	AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSG GRELCLDPKE NWWQRVVEKF LKRAENS
Tag	None
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	> 96% by SDS-PAGE and HPLC analyses. Fully biologically active when compared to standard. The ED ₅₀ as determined by a chemotaxis bioassay
Biological Activity	using human CXCR2 transfected mouse BaF3 cells is less than 2 ng/ml, corresponding to a specific activity of > 5.0 × 10 ⁵ IU/mg.
Endotoxin	< 1.0 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. We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom.
Reconstitution	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 ≤ -20°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 cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only.