Recombinant Human Interleukin-8 /1-77a.a. (rh IL-8 /1-77a.a.)

Synonyms: Monocyte-derived neutrophil chemotactic factor, MDNCF, T-cell chemotactic factor, Neutrophil-activating protein 1, NAP-1, Granulocyte chemotactic protein 1, GCP-1, Monocyte-derived neutrophil-activating peptide, MONAP, Emoctakin, K60, NAF, LECT, LUCT, 3-10C, LYNAP, SCYB8, TSG-1, AMCF-I, b-ENAP.

Introduction: Interleukin-8 (IL-8) is a chemokine 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, the Weibel-Palade bodies. When first encountering an antigen the primary cells to encounter it are the macrophages who phagocytose the particle. Upon processing they release chemokines to signal other immune cells to come in to the site of inflammation. IL-8 is one such chemokine. It serves as a chemical signal that attracts neutrophils at the site of inflammation, and therefore is also known as Neutrophil Chemotactic Factor.

Description: Recombinant human IL-8/1-77a.a. produced in *E.Coli* is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 8.9 kDa. rh IL-8 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli.*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.22µm filtered solution in 25 mM sodium phosphate, pH 6.5.
The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh IL-8 in sterile H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh IL-8 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh IL-8 should be stored at 4° C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).
Please prevent freeze-thaw cycles.

Purity: 95.0% as determined by SDS-PAGE.

Endotoxicity: The endotoxin level is less than 1 EU/µg determined by LAL method

Amino acid sequence: AVLPRSAKEL RCQCIKTYSK PFHPKFIKEL RVIESGPHCA NTEIIVKLSD GRELCLDPKE NWVQRVVEKF LKRAENS

Biological Activity: rh IL-8/1-77a.a. is fully biologically active - tested by its capability to chemoattract human peripheral neutrophils using a concentration range of 10-100 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

small	5 µg	Cat.N°	11349080
medium	25 µg	Cat.N°	11349084
large	100 µg	Cat.N°	11349086
x-large	500 µg	Cat.N°	11349087
xx-large	1000 µg	Cat.N°	11349088

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