

IL-8/CXCL8 Protein, Human, Recombinant (E. coli, aa 23-99)

General Information

Synonyms:	GCP-1; chemokine (C-X-C motif) ligand 8; NAP-1; NAP1; NAF; GCP1; IL8; Interleukin-8; IL-8; LUCT; LYNAP; MONAP; MDNCF; LECT
Protein Construction:	Ala23-Ser99
Species:	Human
Expression Host:	E. coli
Accession:	P10145
Molecular Weight:	8.9 kDa (Predicted); 11 kDa (Reducing conditions)

QC Testing

Biological Activity:	Immobilized Human AXL-His at 10 µg/ml (100 µl/well) can bind Human GAS6-His*. *: Biotinylated by NHS-biotin prior to testing The ED50 of Recombinant Human GAS6-His* is 0.04466 µg/ml. (Regularly tested)
Purity:	> 95% as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

Interleukin-8 (IL-8) belongs to the neutrophil-specific CXC family of chemokines. It is one of the initial cytokines released from a variety of cell types, including T cells, endothelial cells and fibroblasts, in response to an inflammatory stimulus and acts by recruiting neutrophils, T-cells and basophils to the site of inflammation. Elevated Interleukin-8 levels are associated with the onset of a variety of disease states.

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