

Human IL-8 / CXCL8 Protein (aa 23-99)

Catalog Number: 10098-HNCH1



General Information

Gene Name Synonym:

CXCL8, GCP-1, GCP1, LECT, LUCT, LYNAP, MDNCF, MONAP, NAF, NAP-1, NAP1

Protein Construction:

The 77 amino acid endothelial-cell derived form (Ala 23-Ser 99) of the mature human IL8 (NP_000575.1) was expressed and purified.

Source: Human

Expression Host: Human Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ala 23

Molecular Mass:

The recombinant mature human cytokine IL8 comprising the 1-77 amino acids predicts a molecular mass of 8 kDa, and migrates as an approximately 12 kDa protein in SDS-PAGE due to glycosylation.

Formulation:

Lyophilized from sterile 100mM NaCl, 50mM Tris, pH 7.5

Normally 5 % - 8 % trehalose and mannitol are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

SDS-PAGE:

Usage Guide

Storage:

Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

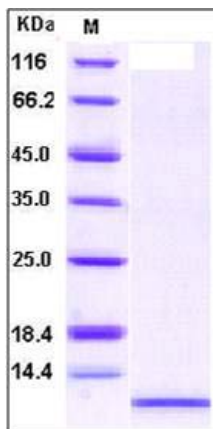
Detailed reconstitution instructions are sent along with the products.

Protein Description

Interleukin-8 (IL8), also known as CXCL8, is a member of the CXC chemokine family of small (8-10 kDa) proteins, a subfamily of chemokines within the cytokine superfamily. This chemokine is secreted by a variety of cell types including monocyte/macrophages, T cells, neutrophils, fibroblasts, endothelial cells, and various tumor cell lines in response to inflammatory stimuli (IL1, TNF, LPS, etc). IL8 has the N-terminal tripeptide Glu-Leu-Arg (ELR) motif, which is known to mediate IL8 receptor binding and subsequent signal transduction, such as the TRAF6- NF-κB pathway, and thus is involved in inflammatory and allergic responses. Furthermore, it has been shown that IL8 also plays a vital role in angiogenesis which is important for tumorigenesis, progression and metastasis, and accordingly the expression levels of IL8 correlate with disease progression in several human carcinomas. This purified IL8 (1-77 amino acid residues) refers to the endothelial-cell derived form of the multiple forms available for this protein.

References

1. Baqqiolini, M. et al., 1992, FEBS. Lett. 307: 97-101
2. Koch, A.E. et al., 1992, Science. 258: 1798-1801.
3. Bar-Eli, M. et al., 1999, Pathobiology. 67: 12-18.
4. Charalambous, C. et al., 2005, Cancer. Res. 65: 10347-10354.
5. Manna, S.K. et al., 2005, J. Biol. Chem. 280: 7010-7021.



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