CXCL8 (IL-8) Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: IL-8, Monocyte-derived neutrophil chemotactic factor, T-cell chemotactic factor, Neutrophil-activating protein 1, Granulocyte chemotactic protein 1

Cat. No.:
RD172388050 (0.05 mg)

Description

Total 72 AA. MW: 8,4 kDa (calculated). UniProtKB acc.no.P10145 (28-99) Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

IL-8 (8 kDa, 72 amino acids) is a non-glycosylated protein and it is produced by the processing of a precursor protein of 99 amino acids. IL-8 is present in the synovial fluids of patients with rheumatoid arthritis and has been purified from plaque psoriasis scales. It is associated with sepsis, asthma and glomerulonephritis.

Research topic

Cytokines and chemokines and related molecules

Amino Acid Sequence

SAKELRCQCI KTYSKPFHPK FIKELRVIES GPHCANTEII VKLSDGRELC LDPKENWVQR VVEKFLKRAE NS

Source

E. coli

Purity

Purity as determined by SDS PAGE: > 97%

Biological Activity

EC50 = 0.083nM determined by Migration Assay in cells expressing recombinant CXCR1

Endotoxin

<0.01 EU /1µg

Reconstitution

Add sterile water to prepare a working stock solution of approximately 0.1 mg/ml and let the lyophilized pellet dissolve completely.

Shipping

At ambient temperature. Upon receipt, store the product at the temperature recommended below.

Storage, Stability/Shelf Life

Store the lyophilized protein at -20 to -70 °C. Lyophilized protein remains stable until the expiry date when stored at-20 to -70 °C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -20 to -70 °C, the protein is stable for 3 months at -20 to -70 °C under sterile conditions after reconstitution. Reconstituted protein can be stored at 4 °C for 1 month under sterile conditions after reconstitution.

Quality Control Test

Quantification is done by A280, using the calculated extinction coefficient (7450 M-1 cm-1).
SDS-PAGE to determine purity of the protein.
LAL TEST to determine endotoxin level.

Applications

Biologically active protein, Cell culture and/or animal studies, ELISA, Western blotting

Note

This product is intended for research use only.

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