CCL5 (Rantes) Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: EoCP, Eosinophil chemotactic cytokine, SIS-delta, Small-inducible cytokine A5, T cell-specific protein P228, Short name=TCP228, T-cell-specific protein RANTES, CCL5, C-C motif chemokine 5

Cat. No.:
RD172382050 (0.05 mg)

Description

Total 68 AA. MW: 7,9 kDa (calculated). UniProtKB acc.no.P13501 (24-91). Protein identity confirmed by LC-MS/MS.

Introduction to the Molecule

Regulated on Activation, Normal T cell Expressed and Secreted (RANTES) (CCL5) is a proinflammatory chemokine that induces migration and activation of leukocytes, as well as implication in HIV infection. It binds to cell surface receptors CCR1, CCR3, CCR4, and CCR5. Its biological effects on leukocyte activation and HIV infection displays dependence on concentration and on the binding of cell surface glycosaminoglycans.

Research topic

Chemokines, Cytokines and chemokines and related molecules

Amino Acid Sequence

SPYSSDTTPC CFAYIARPLP RAHIKEYFYT SGKCSNPAVV FVTRKNRQVC ANPEKKWVRE YINSLEMS

Source

E. coli

Purity

Purity as determined by SDS PAGE: > 97%

Biological Activity

EC50 = 0.13nM determined by Migration Assay in cells expressing recombinant CCR5

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

Quality Control Test

Quantification is done by A280, using the calculated extinction coefficient (12570 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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