



## BRAK (CXCL14), mouse recombinant (rmBRAK)

**Catalog No:** 97585  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** C-X-C motif chemokine 14, B-cell and monocyte-activating chemokine, Chemokine BRAK, Kidney-expressed chemokine CXC, MIP-2G, Small-inducible cytokine B14, Cxcl14, Bmac, Kec, Ks1, Mip2g, Scyb14, BRAK, NJAC, AI414372, bolekin, MIP2gamma, 1110031L23Rik, 1200

### Background

CXCL14 is involved in immunoregulatory and inflammatory processes. BRAK protein is structurally related to the CXC (Cys-X-Cys) subfamily of cytokines. CXCL14 displays chemotactic activity for monocytes but not for lymphocytes, dendritic cells, neutrophils or macrophages. CXCL14 is involved in the homeostasis of monocyte-derived macrophages.

### Description

CXCL14 mouse recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 9.4 kDa. CXCL14 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

CXCL14 was lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4 and 500 mM NaCl.

### Solubility

It is recommended to reconstitute the lyophilized CXCL14 in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized CXCL14, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL14 should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

### Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

SKCKCSRKGP KIRYSQVKKL EMKPKYPHCE EKMVIVTTKS MSRYRGQEHK LHPKLQSTKR FIKWYNWNE KRRVYEE

### Activity

The ED<sub>50</sub> of CXCL14 as determined by its ability to chemoattract activated monocytes using a concentration range of 1.0 - 10.0 ng/ml.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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