

## Recombinant Mouse BRAK (CXCL14 / MIP-2G)

**Synonyms:** C-X-C motif chemokine 14, Small-inducible cytokine B14,Bmac, Kec, Ks1, Scyb14, NJAC, AI414372, bolekin, 1110031L23Rik, 1200006I23Rik.

**Introduction:** BRAK (CXCL14 / MIP-2G) is involved in immunoregulatory and inflammatory processes. The protein is structurally related to the CXC (Cys-X-Cys) subfamily of cytokines. It displays chemotactic activity for monocytes but not for lymphocytes, dendritic cells, neutrophils or macrophages. BRAK is involved in the homeostasis of monocyte-derived macrophages.

**Description:** Recombinant mouse BRAK produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 9.4kDa. The BRAK is purified by proprietary chromatographic techniques.

**Source:** *Escherichia Coli*

**Physical Appearance:** Sterile filtered white lyophilized (freeze-dried) powder..

**Formulation:** Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4 and 500mM NaCl. The sample size of 1µg contains Trehalose 5% (w/vol) for better recovery

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

**Stability:** Lyophilized BRAK although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution BRAK 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 and (b) Analysis by SDS-PAGE.

**Amino Acid Sequence:** SKCKCSRKGP KIRYS DVKKL EMKPKYPHCE EKMVIVTTKS MSRYRGQEHCLHPK LQSTKR FIKWYN AWNE KRRVYEE.

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

This material is offered for research only. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	5 µg	Cat.N°	12345190
<i>medium</i>	20 µg	Cat.N°	12345194

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