

Recombinant Human BRAK (CXCL14 / MIP-2G)

Synonyms: C-X-C motif chemokine 14, Small-inducible cytokine B14, Bolekine, NJAC, BMAC, SCYB14,

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 human 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 after extensive dialysis against 20mM Tris-HCl, pH 8.5 and 1M 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 H₂O 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 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 95.0% as determined by (a) Analysis by RP-HPLC and (b) Analysis by SDS-PAGE.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Lys-Cys-Lys-Cys.

Biological Activity: The ED₅₀ of BRAK as determined by its ability to induce calcium flux of prostaglandin E₂ treated THP1 human acute monocytic leukemia cells was 1.0-10.0 ng/ml.

This material is offered for **research use 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° | 11345190 |
| <i>medium</i> | 20 µg | Cat.N° | 11345194 |

ImmunoTools Excellent Quality - Advantageously priced

Gladiolenweg 2; 26169 Friesoythe; Germany
 phone:+49-(0)4491-400997, fax:+49-(0)4491-400998, info@immunotools.com
www.immunotools.com