

Recombinant Human CXCL14/BRAK

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|---------------------------|--|-------|
| CATALOG #: | 4278-10 | 10 µg |
| | 4278-50 | 50 µg |
| | 4278-1000 | 1 mg |
| ALTERNATE NAMES: | C-X-C motif chemokine 14 (Chemokine BRAK) (MIP-2G) (Small-inducible cytokine B14) | |
| SOURCE: | E.Coli. | |
| PURITY: | > 95% as determined by SEC-HPLC. > 95% as determined by reducing SDS-PAGE | |
| MOL. WEIGHT: | ~ 9.4 kDa | |
| ENDOTOXIN CONTENT: | < 0.1 ng/µg (1 IEU/µg) | |
| FORMULATION: | Recombinant CXCL14/BRAK is lyophilized from a 0.2 µm filtered solution of 20 mM Tris HCl and 1 M NaCl, pH 8.5. | |

BIOLOGICAL ACTIVITY:

The ED₅₀ 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.

SEQUENCE:

Recombinant Human CXCL14 produced in E. coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of 9.4 kDa. The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Lys-Cys-Lys-Cys.

RECONSTITUTION:

Reconstitute the lyophilized recombinant human CXCL14 in sterile 18MΩ-cm H₂O not less than 100 µg/ml. This can further be diluted to other aqueous buffers.

STORAGE CONDITIONS:

Lyophilized CXCL14/BRAK should be stored at less than -20°C, though stable at room temperature for 3 weeks. Reconstitute protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at less than -20°C for 3 months. Avoid repeated

DESCRIPTION:

Human Chemokine (C-X-C motif) ligand 14(hCXCL14), also known as breast and kidney-expressed chemokine (BRAK), MIP-2 gamma, kidney-expressed chemokine (KEC), and B cell and monocyte-activating chemokine (BMAC), is a CXC chemokine constitutively expressed in certain normal tissues but is reduced or absent from many established tumor cell lines and human cancers. CXCL14 is known to be a chemo-attractant for monocyte and dendritic cells. CXCL14 inhibits angiogenesis and exhibits antimicrobial activities. Mature human and mouse CXCL14 differ by only 2 residues.

FOR RESEARCH USE ONLY! Not to be used on humans.

RELATED PRODUCTS:

- Recombinant Human CCL23 (Cat. No. 4276-10, 50, 100)
- Recombinant Human CXCL10 (Cat. No. 4277-10, 50, 100)
- Recombinant Human CXCL14 (Cat. No. 4278-10, 50, 100)
- Eotaxin/CCL11, human recombinant (Cat. No. 4028-20, 100, 1000)
- Eotaxin/CCL11, murine recombinant (Cat. No. 4029-10, 1000)
- RANTES, human recombinant (Cat. No. 4321-10, 1000)
- RANTES, murine recombinant (Cat. No. 4322-10, 1000)
- RANTES, rat recombinant (Cat. No. 4323-20, 100, 1000)
- SDF-1alpha (CXCL12), human recombinant (Cat. No. 4387-10, 50, 1000)
- SDF-1alpha (CXCL12), murine recombinant (Cat. No. 4388-10, 50, 1000)
- SDF-1beta (CXCL12), human recombinant (Cat. No. 4390-10, 100, 1000)
- SDF-1beta (CXCL12), murine recombinant (Cat. No. 4391-10, 100, 1000)