

## Recombinant Human CXCL14/BRAK

<b>CATALOG #:</b>	4278-10	10 µg
	4278-50	50 µg
	4278-1000	1 mg
<b>ALTERNATE NAMES:</b>	C-X-C motif chemokine 14 (Chemokine BRAK) (MIP-2G) (Small-inducible cytokine B14)	
<b>SOURCE:</b>	E.Coli.	
<b>PURITY:</b>	> 95% as determined by SEC-HPLC. > 95% as determined by reducing SDS-PAGE	
<b>MOL. WEIGHT:</b>	~ 9.4 kDa	
<b>ENDOTOXIN CONTENT:</b>	< 0.1 ng/µg (1 IEU/µg)	
<b>FORMULATION:</b>	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 ED<sub>50</sub> 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 H<sub>2</sub>O 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 freeze thaw cycles.

**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)