

Recombinant Human CXCL14, His-tagged

Cat. No. CXCL14-25H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CXCL14 produced in <i>E. Coli</i> is a single, non-glycosylated, polypeptide chain containing 88 amino acids and having a molecular mass of 10.6 kDa. The Human BRAK contains fusion His tag at N-Terminus. The BRAK is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	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.
Amino Acid Sequence	MKHHHHHHAS SKCKCSRKGP KIRYSDVKKL EMKPKYPHCE EKMVIITTKS VSRYRGQEHC LHPKLQSTKR FIKWYNWNE KRRVYEE
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized from a concentrated (0.5mg/ml) solution containing 20mM Tris buffer & 20mM NaCl pH-7.5.

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Solubility

It is recommended to reconstitute the lyophilized CXCL14 in sterile 18MΩ-cm H₂O not less than 100g/ml, which can then be further diluted to other aqueous solutions.

Storage

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. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

CXCL14 chemokine (C-X-C motif) ligand 14 [Homo sapiens]

Synonyms

CXCL14; chemokine (C-X-C motif) ligand 14; KS1; Kec; BMAC; BRAK; NJAC; MIP-2g; SCYB14; MGC10687; bolekin; small inducible cytokine subfamily B (Cys-X-Cys), member 14 (BRAK); Small-inducible cytokine B14; C-X-C motif chemokine 14; UNQ240/PRO273; bolekin; CXC chemokine in breast and kidney; Chemokine BRAK; Chemokine BRAK; chemokine (C-X-C motif) ligand 14; small inducible cytokine subfamily B (Cys-X-Cys), member 14 (BRAK)

Gene ID

9547

mRNA Refseq

NM_004887

Protein Refseq

NP_004878

UniProt ID

O95715

Chromosome Location

5q31

MIM

604186

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Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
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Function	chemokine activity
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