

## CXCL14 Protein, Mouse, Recombinant

### General Information

Synonyms:	MIP2gamma;Scyb14;BMAC;MIP2y;bolekine;AI414372;NJAC;chemokine (C-X-C motif) ligand 14;1110031L23Rik;KS1;1200006I23Rik;MIP-2g;BRAK;Kec
Protein Construction:	A DNA sequence encoding the mouse Cxcl14 (NP_062514.2) (Ser23-Glu99) was expressed. Predicted N terminal: Ser 23
Species:	Mouse
Expression Host:	E. coli
Accession:	Q9WUQ5
Molecular Weight:	9.4 kDa (predicted)

### QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 95 % as determined by SDS-PAGE.
Endotoxin:	Please contact us for more information.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing 100 mM Na <sub>2</sub> HPO <sub>4</sub> , 1 M NaCl, pH 6.5. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

### Preparation and Storage

Reconstitution:	Reconstituted with sterile deionized water to 0.25 mg/mL. Reconstitution conditions may vary depending on the lot.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>

Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.
-----------	------------------------------------------------------------------------------------------------------

### Protein Background

CXCL14 is a CXC chemokine family that exhibits antimicrobial activity and contains an amphipathic cationic alpha-helical region in the C-terminus, a characteristic structure of antimicrobial peptides (AMPs). CXCL14 is involved in cell recruitment, migration, activation, and homing in liver diseases and have been shown to be upregulated during acute liver injury in animal models. The CXC chemokine ligand 14 (CXCL14) had been shown highly

## A DRUG SCREENING EXPERT

---

expressed in tumor-associated stromal cells, promoting tumor cell growth, and invasion. The stimulation of dysregulated CXCL14 expression by *P. gingivalis* may help promote dysbiosis and the development of chronic periodontitis. The level of CXCL14 expression may be a valuable adjuvant parameter to predict the prognosis of patients with oral carcinoma and may be a potential therapeutic target.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel: 781-999-4286 E\_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481