

CXCL14/BRAK Protein, Mouse (His)

Cat. No.:	HY-P71887A
Synonyms:	Cxcl14; Bmac; Kec; Ks1; Mip2g; Scyb14C-X-C motif chemokine 14; B-cell and monocyte-activating chemokine; Chemokine BRAK; Kidney-expressed chemokine CXC; MIP-2G; Small-inducible cytokine B14
Species:	Mouse
Source:	E. coli
Accession:	Q9WUQ5 (S23-E99)
Gene ID:	57266
Molecular Weight:	Approximately 13 kDa

PROPERTIES

AA Sequence	<div> <div>S K C K C S R K G P</div> <div>M S R Y R G Q E H C</div> </div> <div> <div>K I R Y S D V K K L</div> <div>L H P K L Q S T K R</div> </div> <div> <div>E M K P K Y P H C E</div> <div>F I K W Y N A W N E</div> </div> <div> <div>E K M V I V T T K S</div> <div>K R R V Y E E</div> </div>
Biological Activity	The biological activity determined by a chemotaxis bioassay using THP-1 human monocytic leukemia cells. The ED ₅₀ for this effect is 1.081 ng/mL, corresponding to a specific activity is 9.25×10 ⁵ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 300 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	CXCL14/BRAK protein functions as a chemotactic factor specifically attracting CESS B-cells and THP-1 monocytes, with no chemotactic effect on T-cells. This selective chemoattraction underscores its role in mediating the migration of B-cells and monocytes, contributing to immune responses within the microenvironment. The distinct chemotactic properties of CXCL14/BRAK highlight its specificity for certain immune cell types, suggesting a specialized role in regulating the recruitment and activation of B-cells and monocytes while not influencing T-cell migration.
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Caution: Product has not been fully validated for medical applications. For research use only.

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