

Recombinant Rat Cytokine-induced Neutrophil Chemoattractant-2 alpha/CXCL3

Information

Gene ID	171551
Accession #	Q10746
Alternate Names	CINC-2alpha, MIP2-alpha
Source	Escherichia coli.
M.Wt	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 69 amino acids.
AA Sequence	RELRCQCLKT LPRVDFENIQ SLTVTPPGPH CTQTEVIATL KDGQEVCLNP QAPRLQKIIQ KLLKSDKSS
Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Stability & Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles - 12 months from date of receipt, -20 to -70 °C as supplied - 1 month, 2 to 8 °C under sterile conditions after reconstitution - 3 months, -20 to -70 °C under sterile conditions after reconstitution
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 50 mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human CXCR2 transfected murine BaF3 cells is in a concentration range of 5-50 ng/ml.
Shipping Condition	Gel pack.
Handling	Centrifuge the vial prior to opening.
Usage	For Research Use Only! Not to be used in humans.

Components and Storage

Components	10µg	100µg	500µg
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- 3 months, -20 to -70 °C under sterile conditions after reconstitution

Quality Control

Purity	> 96 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/ μ g of rRtCINC-2 α /CXCL3 as determined by LAL method.

Description

CXCL3 is belonging to the CXC chemokine family, which is also known as CINC-2 in rat, DCIP-1 in murine, and GRO γ in humans. The functional receptor for CXCL3 has been identified as CXCR2. Similar to other GRO proteins, CXCL3 is potent neutrophil attractants and activators. This chemokine were originally purified from the conditioned medium of rat granulation tissue. In rat, CINC-2 has two isoforms, known as CXCL3 α /CINC-2 α and CXCL3 β /CINC-2 β . CXCL3 α differs from CXCL3 β as DKSS to PSL (98-101) at carboxy-terminal residues.

Reference

1. Nolan KF, Strong V, Soler D, et al. 2004. J Immunol. 172:2201-9
2. Modi WS, Yoshimura T. 1999. Mol Biol Evol. 16:180-93
3. Tsai HH, Frost E, To V, et al. 2002. Cell. 110:373-83
4. Smith DF, Galkina E, Ley K, et al. 2005. Am J Physiol Heart Circ Physiol. 289:H1976-84
5. Nakagawa H, Komorita N, Shibata F, et al. 1994. Biochem J. 301 (Pt 2):545-50.

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