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Lungkine Mouse

Lungkine (CXCL15) Mouse Recombinant
CHK0092

Product Overview

Name	Lungkine Mouse
Description	
Lungkine (CXCL15) Mouse Recombinant	
Accession (Primary)	Q9WVL7
Synonyms	
C-X-C motif chemokine 15, Lungkine, Small-inducible cytokine B15, Cxcl15, Scyb15.	
Introduction	
Mouse Lungkine/CXCL15 (WECHE) belongs to the ELR motif-containing CXC chemokines. The mouse Lungkine gene has been mapped to chromosome 5. The cDNA of mouse Lungkine encodes a 166 amino acids (aa) protein with a 25 aa predicted signal peptide and a 141 aa mature protein with an exceptionally long C-terminal tail which extends beyond beyond the chemokine fold. Lungkine protein is secreted into bronchoalveolar space and is involved in lung-specific neutrophils trafficking. Furthermore, studies in Lungkine knockout mice propose that Lungkine is an imperative mediator of neutrophil migration from the lung parenchyma into the airspace. In addition, Lungkine is chemotactic for bone marrow progenitor cells and modulates hematopoietic cell differentiation. By Northern blot analysis and in-situ hybridization, Lungkine transcripts have only been specifically detected in the adult and fetal lung, and its expression is up-regulated under inflammatory conditions. There is a 35% aa sequence similarity between the mouse Lungkine and the human ENA-78 and a 31% similarity with the human IL-8.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Lungkine protein was lyophilized from a 0.2 µm filtered concentrated solution in PBS pH 7.4 and 0.02% Tween-20.	
Stability	
Lyophilized Lungkine although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL15 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.	
Purity	

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Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Amino acid sequence

QELRCLCIQE HSEFIPLKLI KNIMVIFETI YCNRKEVIAV PKNGSMICLD PDAPWVKATV GPITNRFLPE DLKQKEFPPA MKLLYSVEHE KPLYLSFGRP ENKRIFPFPI RETSRHFADL AHNSDRNFLR DSSEVSLTGS DA.

Biological Activity

The biological activity determined by a chemotaxis bioassay using human neutrophils is in a concentration of 20-100 ng/ml.

Solubility

It is recommended to reconstitute the lyophilized Lungkine in sterile 18M-cm H 2 O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

Lungkine Mouse is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9WVL7)