

# Recombinant Mouse CXCL11 protein(His Tag)

Catalog Number:PKSM041519



**Note:** Centrifuge before opening to ensure complete recovery of vial contents.

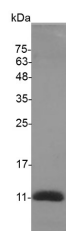
## Description

|                                    |   |
|------------------------------------|---|
| <b>Synonyms</b>                    | Epithelial Neutrophil Activating Peptide-78;ENA-78;AMCF;AMCF-II;Cxcl;Cxcl6;LIX;Scyb;Scyb5;Scyb6                                     |
| <b>Species</b>                     | Mouse   |
| <b>Expression Host</b>             | E.coli  |
| <b>Sequence</b>                    | Phe 22-Met 100  |
| <b>Accession</b>                   | Q9JHH5  |
| <b>Calculated Molecular Weight</b> | 9.9 kDa   |
| <b>Observed molecular weight</b>   | 11 kDa  |
| <b>Tag</b>                         | N-His   |
| <b>Bioactivity</b>                 | Measure by its ability to chemoattract BaF3 cells transfected with human CXCR3. The ED <sub>50</sub> for this effect is < 10 ng/mL. |

## Properties

|                       |   |
|-----------------------|---|
| <b>Purity</b>         | > 98 % as determined by reducing SDS-PAGE.  |
| <b>Endotoxin</b>      | < 0.1 EU per µg of the protein as determined by the LAL method.   |
| <b>Storage</b>        | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months. |
| <b>Shipping</b>       | This product is provided as lyophilized powder which is shipped with ice packs.   |
| <b>Formulation</b>    | Lyophilized from sterile PBS, pH 7.4.<br>Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization.<br>Please refer to the specific buffer information in the printed manual.           |
| <b>Reconstitution</b> | Please refer to the printed manual for detailed information.  |

## Data



> 98 % as determined by reducing SDS-PAGE.

## Background

CXCL11, also known as I-TAC, SCYB9B, H174 and beta -R1, is a non-ELR CXC chemokine. CXCL11 cDNA encodes a 94 amino acid (aa) residue precursor protein with a 21 aa residue putative signal sequence, which is cleaved to form the mature 73 aa residue protein. CXCL11 shares 36% and 37% amino acid sequence homology with IP-10 and MIG (two other known human non-ELR CXC chemokines), respectively. CXCL11 is expressed at low levels in normal tissues including thymus, spleen and pancreas. The expression of CXCL11 mRNA is radically up regulated in IFN-gamma and

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IL-1 stimulated astrocytes. Moderate increase in expression is also observed in stimulated monocytes. CXCL11 has potent chemoattractant activity for IL-2 activated T cells and transfected cell lines expressing CXCR3, but not freshly isolated T cells, neutrophils or monocytes. The gene encoding CXCL11 has been mapped to chromosome 4.

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