

## DATA SHEET

Versions: 01

Revision date: 25/11/2023

### 1. Identification

Product name: Recombinant Protein human CXCL12

Reactions: 20 micrograms

Cat. No.: PRA-ReHCXC12

### 2. Description

The stromal cell-derived factor 1 (SDF-1), which is also known as C-X-C motif chemokine 12 (CXCL12), is a pro-inflammatory chemokine that in humans is encoded by the CXCL12 gene on chromosome 10. The cytokine has a molecular mass each of 8 kilo Daltons. Recombinant human CXCL12 can be intended for use in in vivo and in vitro applications. Recombinant human CXCL12 is produced in E. coli BL21 transfected with the full-length sequence for the human CXCL12 gene in the PET21b+.

### 3. Kit Contents

Component	Cat. no	Quantity
lyophilized recombinant human CXCL12	PRA-ReHCXC12	20 µg

### 4. Storage specifications

- Recombinant human CXCL12 is shipped and stored at -20C.
- Upon receipt, add 1 mL sterile distilled water and prepare aliquots of recombinant human CXCL12 and store at -20°C for 12 months.

**Note:** Avoid repeated freeze-thaw cycles.



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### 5. Applications

All molecular biology applications, such as:

### 6. Assay Procedure

Purity greater than 98% as determined by SDS-PAGE.

- Endotoxin levels <0.1 EU/μg as determined using a kinetic chromogenic LAL assay.
- Biological activity was not tested.
- Did not Sterile. Please sterile after reconstitution using 0.22 μm filter.
- Expression system: E. coli BL21 strain
- Accession: Q6ICR7
- Protein length: Full length protein
- Animal free: Yes
- Carrier free: Yes
- Nature: Recombinant
- Predicted molecular weight: 8.7 kDa

### CHARACTERISTICS

Source: Bacteria; E. coli BL21

Predicted molecular mass:≈ 8.7 kDa (as determined by SDS-PAGE)

Formulation:

Recombinant human CXCL10 needs to be sterilized by filtered from 0.22 μm filter.

Solubility: 20 μg/ml in water



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### 7. Safety

- The solutions used in the kit have oxidizing and acidic properties.
- Avoid direct contact with skin and eyes.
- In case of contact with the mentioned tissues, wash with plenty of water and go to the nearest medical center.

### 8. Quality Certifications

### 9. Further information

- This product is developed, designed, and sold exclusively only for research purposes use.
- The product was not tested for use in diagnostics or for drug development.
- It is not suitable for administration to humans or animals.

### 10. Other Kits

Recombinant Human TNF- $\alpha$ , Recombinant Human IL-1,  
Recombinant Human IL-2, Recombinant Human IL-4  
Recombinant Human IL-6, Recombinant Human IL-8  
Recombinant Human IL-10, Recombinant Human IL-12  
Recombinant Human IL-13, Recombinant Human IL-17A  
Recombinant Human IL-18, Recombinant Human IL-29  
Recombinant Human IFN, Recombinant Human TGF  
Recombinant Human VEGF, Recombinant Human CXCL10  
Recombinant Human CXCL12, Recombinant Human CCL2  
Recombinant Human CCL3

### NOTE

All products have been manufactured by Karmania Pars Gene Company in the Iran.

