



## Stromal Cell-Derived Factor 1 $\alpha$ (SDF-1 $\alpha$ , CXCL12) tested in migration assay

**Product Number:** HM-170; HM-171; HM-172

**Expiration date:** (depends on batch)

**Batch number:** (each batch has a specific tracking number)

**Batch concentration:** (depends on batch) after addition of (depends on batch)  $\mu$ L of distilled water.

### **Product Description:**

Recombinant Stromal Cell-Derived Factor 1 $\alpha$  (SDF-1 $\alpha$ ) is a 8 kDa chemokine protein expressed in many tissues and cell types.

The protein is almost identical (92% homology) in human, mouse and rat.

This product corresponds to human sequence and is produced in *E.coli*: the first methionine is present but does not affect the biological activity.

It contains only trace amounts of LPS (<0.1 ng/mg protein), and is tested for the ability to induce fibroblast migration.

### **Reagent format:**

SDF-1 $\alpha$  is lyophilized from DPBS without Ca and Mg.

**Storage:** 2-8 $^{\circ}$ C when lyophilized. The protein once reconstituted with water can be stored frozen (-20 $^{\circ}$ C). Avoid repeated freezing and thawing.

### **How to use product:**

The product can be used in cell migration assays, both *in vitro* and *in vivo*; maximum activity in migration assay is at about 1nM.

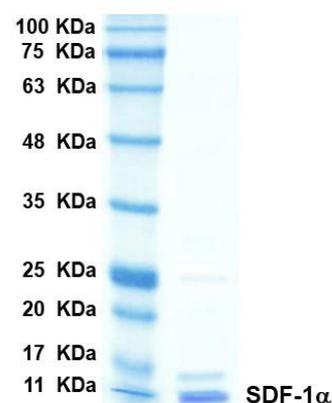
### **This product is for research use only**

### **References:**

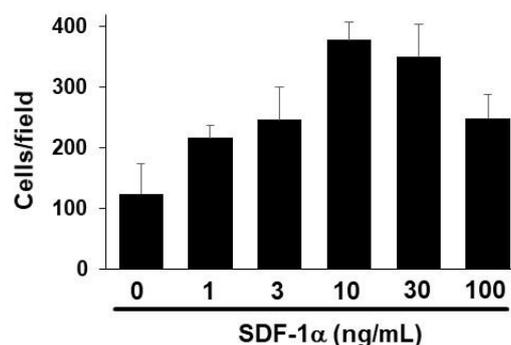
Schiraldi *et al* (2012) HMGB1 promotes recruitment of inflammatory cells to damaged tissues by forming a complex with CXCL12 and signaling via CXCR4. *J Exp Med.* 2012: 551–563.

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MKPVLSLSYRCPGRFFESHVARANVKHLKILNT  
PNCALQIVARLKNNNRQVCIDPKLKIQEYLE  
KALNK
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**Fig. 1.** Stromal Cell-Derived Factor 1 $\alpha$  sequence



**Fig. 2.** SDS-PAGE with Coomassie Blue staining



**Fig. 3.** Migration assay with 3T3 mouse cells