

Stromal Cell-Derived Factor 1 α (SDF-1 α , CXCL12)

Product Number: *****
Expiration date: *****
Batch number: *****
Batch concentration: ***** mg/mL after addition of
***** μ L of distilled water.

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MKPVLSLSYRCPCRFESHVARANVKHLKILNTP  
NCALQIVARLKNNNRQVCIDPKLKWIQEYLEKA  
LNK
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Fig. 1. HMGB1 sequence

Product Description:

Recombinant Stromal Cell-Derived Factor 1 α (SDF-1 α) 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.

SDF1 forms a complex with fully reduced HMGB1 and has chemoattractant activity. The protein is free from LPS (<0.1EU/mL).

The product contains <0.006% v/v of Triton X-114 due to LPS removal procedure.

Reagent format:

SDF1 α protein we provide is the natural protein, with no tags or additional amino acids.

The lyophilized protein once reconstituted will be dissolved in a solution containing DPBS without Ca and Mg.

Storage: 2-8°C. The protein once resuspended can be stored frozen (-20°C).

This product is for research use only

References:

- Mantonico M. *et al* (2024) The acidic intrinsically disordered region of the inflammatory mediator HMGB1 mediates fuzzy interactions with CXCL12. *Nat Commun* 15(1):1201
- De Leo F. *et al* (2019) Diflunisal targets the HMGB1/CXCL12 heterocomplex and blocks immune cell recruitment. *EMBO Rep* 4: 20(10-)
- Ye Y. *et al* (2019) The Role of High Mobility Group Box 1 in Ischemic Stroke. *Front Cell Neurosci* 2:13:127
- Venereau E. *et al* (2013) HMGB1 and leukocyte migration during trauma and sterile inflammation. *Mol Immunol*.55(1):76-82

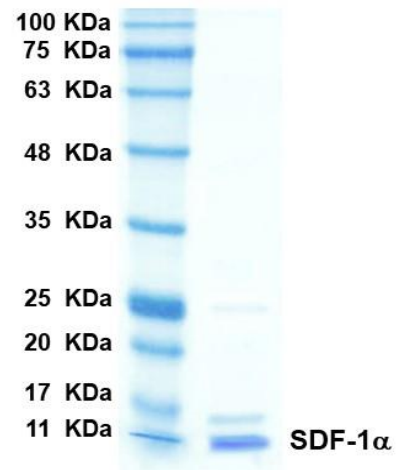


Fig. 2. SDS-PAGE with Coomassie Blue staining

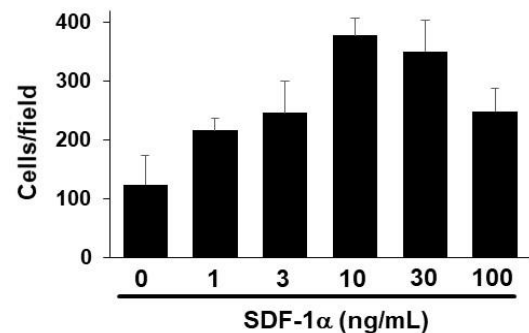


Fig. 3. Migration assay with 3T3 mouse cells