

## Recombinant Human SDF-1 $\alpha$

**CATALOG #:** 4387-10 10  $\mu$ g  
4387-50 50  $\mu$ g  
4387-1000 1 mg

**LOT #:** \_\_\_\_\_

**SOURCE:** *E. Coli*

**PURITY:** >98% by SDS-PAGE and HPLC analyses  
Endotoxin level is <0.1 ng per  $\mu$ g (1EU/ $\mu$ g).

**MOL. WEIGHT:** 8.0 kDa

**FORM:** Sterile filtered and lyophilized with no additives

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitution in water to a concentration of 0.1-1.0 mg/ml. The solution can then be diluted into other aqueous buffers or stored at 4°C for 1 week or -20°C for future use.

### STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated below 0°C. Reconstituted SDF-1 $\alpha$  should be stored at working aliquots at -20°C.

### BACKGROUND DESCRIPTION:

Human Stromal Cell-Derived Factor-1 $\alpha$  (SDF-1 $\alpha$ ) is a recently discovered protein belonging to the  $\alpha$ -chemokine (C-X-C) family of cytokines. Human SDF-1 $\alpha$  is an 8.0 kDa protein containing 68 amino acids residues with N-terminus His-tag.

### BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration range of 20-80 ng/ml.

**FOR RESEARCH USE ONLY! Not to be used on humans.**

### RELATED PRODUCTS:

#### Apoptosis Detection Kits & Reagents

- Annexin V Kits & Bulk Reagents
- Caspase Assay Kits & Reagents
- Mitochondrial Apoptosis Kits & Reagents
- Nuclear Apoptosis Kits & Reagents
- Apoptosis Inducers and Set
- Apoptosis siRNA Vectors

#### Cell Fractionation System

- Mitochondria/Cytosol Fractionation Kit
- Nuclear/Cytosol Fractionation Kit
- Membrane Protein Extraction Kit
- Cytosol/Particulate Rapid Separation Kit
- Mammalian Cell Extraction Kit
- FractionPREP Fractionation System

#### Cell Proliferation & Senescence

- Quick Cell Proliferation Assay Kit
- Senescence Detection Kit
- High Throughput Apoptosis/Cell Viability Assay Kits
- LDH-Cytotoxicity Assay Kit
- Bioluminescence Cytotoxicity Assay Kit
- Live/Dead Cell Staining Kit

#### Cell Damage & Repair

- HDAC Fluorometric & Colorimetric Assays & Drug Discovery Kits
- HAT Colorimetric Assay Kit & Reagents
- DNA Damage Quantification Kit
- Glutathione & Nitric Oxide Fluorometric & Colorimetric Assay Kits

#### Signal Transduction

- cAMP & cGMP Assay Kits
- Akt & JNK Activity Assay Kits
- Beta-Secretase Activity Assay Kit

#### Adipocyte & Lipid Transfer

- Recombinant Adiponectin, Survivin, & Leptin
- CETP Activity Assay & Drug Discovery Kits
- PLTP Activity Assay & Drug Discovery Kits
- Total Cholesterol Quantification Kit

#### Molecular Biology & Reporter Assays

- siRNA Vectors
- Cloning Insert Quick Screening Kit
- Mitochondrial & Genomic DNA Isolation Kits
- 5 Minutes DNA Ligation Kit
- 20 Minutes Gel Staining/Destaining Kit
- $\beta$ -Galactosidase Staining Kit & Luciferase Reporter Assay Kit

#### Growth Factors and Cytokines

#### Monoclonal and Polyclonal Antibodies