



Recombinant Mouse SDF-1 α / CXCL12
(Stromal Cell-Derived Factor-1 alpha)

Catalog Number: 200-46
Accession Number: Q4FJL5

Specifications and Uses:

Alternate Names: CXCL12, PBSF

Description:

Stromal Cell Derived Factor-1 alpha (SDF-1 α), also called CXCL12, is one of two splice variants made by a wide variety of cells when stimulated by inflammatory cytokines such as, TNF, IL-1 or LPS. SDF-1 α signals through the G protein-coupled receptor, CXCR4, to recruit activated leukocytes. Human and mouse SDF-1 α share 99% sequence identity. Recombinant mouse SDF-1 α is a non-glycosylated protein, containing 68 amino acids, with a molecular weight of 7.9 kDa.

Source: *E.coli*

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation and Stability:

Recombinant mouse SDF-1 α is lyophilized from a concentrated (1mg/mL) sterile solution containing 10 mM acetic acid (AcOH).

Lyophilized product is very stable at -20°C. Reconstituted material should be aliquoted and frozen at -20°C. It is recommended that a carrier protein (0.1% HSA or BSA) is added for long term storage.

Reconstitution:

Centrifuge vial before opening. When reconstituting the product, gently pipet and wash down the sides of the vial to ensure full recovery of the protein into solution. It is recommended to reconstitute the lyophilized product with sterile water at a concentration of 0.1 mg/mL, which can be further diluted into other aqueous solutions.

Protein Content and Purity (typically \geq 98%) determined by:

Reducing and Non-reducing SDS-PAGE, UV spectroscopy at 280 nm

Endotoxin Level:

Measured by kinetic LAL analysis and is typically \leq 1 EU/ μ g protein.

Biological Activity:

The activity as determined by its ability to chemoattract human T cells at 50-100 ng/mL.

AA Sequence:

KPVSLSYRCP CRFFESHIAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNK

THIS PRODUCT IS FOR RESEARCH USE ONLY AND IS NOT FOR USE IN HUMANS!

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