

Human SDF2 Protein (His Tag)

Catalog Number: 10950-H08B



Sino Biological Inc.

Biological Solution Specialist

General Information

Gene Name Synonym:

AI853825

Protein Construction:

A DNA sequence encoding the pro form of human SDF2 (NP_008854.2) (Met 1-Leu 211) was expressed with a C-terminal polyhistidine tag.

Source: Human

Expression Host: Baculovirus-Insect Cells

QC Testing

Purity: > 95 % as determined by SDS-PAGE

Endotoxin:

< 1.0 EU per µg of the protein as determined by the LAL method

Stability:

Samples are stable for up to twelve months from date of receipt at -70 °C

Predicted N terminal: Ser 19

Molecular Mass:

The recombinant human SDF2 consists of 204 amino acids after removal of the signal peptide and has a predicted molecular mass of 22.7 kDa. also estimated by SDS-PAGE under reducing conditions due to glycosylation.

Formulation:

Lyophilized from sterile 50mM Tris, 100mM NaCl, pH 8.0, 0.5mM PMSF, 0.5mM EDTA, 0.5mM TCEP, 10% glycerol

Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween80 are added as protectants before lyophilization. Specific concentrations are included in the hardcopy of COA. Please contact us for any concerns or special requirements.

Usage Guide

Storage:

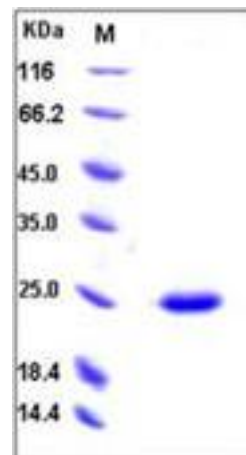
Store it under sterile conditions at -20°C to -80°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage.

Avoid repeated freeze-thaw cycles.

Reconstitution:

Detailed reconstitution instructions are sent along with the products.

SDS-PAGE:



Protein Description

Stromal derived factors (SDFs) are a loosely defined group of molecules that are generated by stromal cells. Two of the stromal derived factors, SDF-1 and SDF-4 belong to the chemokine family. Other SDFs, such as SDF-2 and SDF-5 are not well defined and their biological functions are less known. SDF-2 is first isolated from the mouse stromal cell line ST2 as a secretory protein. The amino acid sequence deduced from the murine clone and the human homolog are conserved more than 92 %, and the aa sequence of SDF-2 shows similarity to those of yeast dolichyl phosphate-D-mannose, protein mannosyltransferases. SDF-1 and its receptor are strongly indicated in the progression of various cancers including breast cancer. SDF-2, SDF2-L1, SDF-4, and SDF-5 are ubiquitously expressed in various cancer cell lines and SDF-2, SDF-4 and SDF-5 are expressed in mammary tissues. These SDFs have prognostic value and warrant further investigation in their biological functions and clinical value.

References

- 1.Hamada,T.etal.,1996,Genes.176(1-2):211-214.
- 2.Anjard,C.etal.,1998,Development.125(20):4067-4075.
- 3.Kang,H.etal.,2009,Int J Oncol.35(1):205-211.

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