Recombinant Protein Technical Manual

Recombinant Mouse SDF2 Protein (His Tag)

RPES3501

Product Data:

Product SKU: RPES3501

Size: 20µg

Species: Mouse

Expression host: Baculovirus-Insect Cells

Uniprot: Q9DCT5

Protein Information:

Molecular Mass:	22.8 kDa
AP Molecular Mass:	27 kDa
Tag:	C-His
Bio-activity:	
Purity:	> 90 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage:	Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8℃ for 2-7 days. Aliquots of reconstituted samples are stable at < -20℃ for 3 months.
Shipping:	This product is provided as lyophilized powder which is shipped with ice packs.
Formulation:	Lyophilized from sterile 20mM Tris, 500mM NaCl, pH 8.0
Reconstitution:	Please refer to the printed manual for detailed information.
Application:	
Synonyms:	AI853825

Immunogen Information:

Sequence: Met 1-Leu 211

Background:

Stromal derived factors (SDFs) are a loosely defined group of molecules that are generated by stromal cells. Two of the stromal derived factors, SDF 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 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.