

Mouse Stromal cell-derived factor 1 alpha (SDF1a) ELISA Kit

Catalog No: #EK7419

Package Size: #EK7419-1 48T #EK7419-2 96T

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Description

Product Name	Mouse Stromal cell-derived factor 1 alpha (SDF1a) ELISA Kit
Applications	ELISA
Species Reactivity	Mouse (Mus musculus)
Other Names	CXCL12; PBSF; P-BSF; SCYB12; SDF1-A; SDF1-B; SDF1A; SDF1B; TLSF-A; TLSF-B; TPAR1; Pre-B Cell Growth-Stimulating Factor; Chemokine C-X-C-Motif Ligand 12
Storage	<p>The stability of ELISA kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition.</p> <p>The loss rate was determined by accelerated thermal degradation test. Keep the kit at 37C for 4 and 7 days, and compare O.D. values of the kit kept at 37C with that of at recommended temperature. (referring from China Biological Products Standard, which was calculated by the Arrhenius equation. For ELISA kit, 4 days storage at 37C can be considered as 6 months at 2 - 8C, which means 7 days at 37C equaling 12 months at 2 - 8C).</p>

Application Details

Detect Range: 62.5-4000 pg/mL

Sensitivity: 23.3 pg/mL

Sample Type: Serum, Plasma, Other biological fluids

Sample Volume: 1-200 µL

Assay Time: 1-4.5h

Detection wavelength: 450 nm

Product Description

Detection Method: Sandwich Test principle: This assay employs a two-site sandwich ELISA to quantitate SDF1a in samples. An antibody specific for SDF1a has been pre-coated onto a microplate. Standards and samples are pipetted into the wells and any SDF1a present is bound by the immobilized antibody. After removing any unbound substances, a biotin-conjugated antibody specific for SDF1a is added to the wells. After washing, Streptavidin conjugated Horseradish Peroxidase (HRP) is added to the wells. Following a wash to remove any unbound avidin-enzyme reagent, a substrate solution is added to the wells and color develops in proportion to the amount of SDF1a bound in the initial step. The color development is stopped and the intensity of the color is measured.

Product Overview: SDF-1 is a small cytokine belonging to the chemokine family that is officially designated Chemokine (C-X-C motif) ligand 12 (CXCL12). SDF-1 is produced in two forms, SDF-1α/CXCL12a and SDF-1β/CXCL12b, by alternate splicing of the same gene. SDF-1β is synthesized as a 93 amino acid (aa) precursor that contains a 21 aa signal sequence and a 72 aa mature region. The mature molecule exhibits a typical three antiparallel β-strand chemokine-like fold. There are no potential N-linked glycosylation sites. N-terminal aa 1-8 form a receptor binding site, while aa 1 and 2 (Lys-Pro) are involved in receptor activation. The C-terminus is likely associated with heparin binding. SDF-1β circulates and undergoes proteolytic processing. SDF-1β are reported to be monomers at neutral pH and physiologic ionic strength.

Note: This product is for in vitro research use only and is not intended for use in humans or animals.