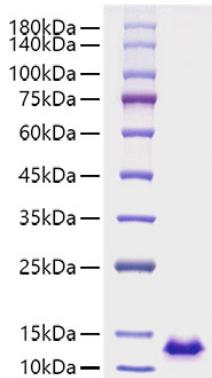
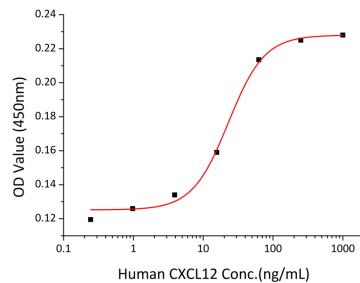

Product name:	Recombinant Human CXCL12/SDF-1 Protein
Cat number:	GRF01637
Size:	10 ug, 20 ug
Synonyms:	IRH; PBSF; SDF1; TLSF; TPAR1; SCYB12;CXCL12
Molecular Weight:	7.96 kDa
Purification:	≥ 95 % as determined by SDS-PAGE.
Background:	Acts as a positive regulator of monocyte migration and a negative regulator of monocyte adhesion via the LYN kinase. Stimulates migration of monocytes and T-lymphocytes through its receptors, CXCR4 and ACKR3, and decreases monocyte adherence to surfaces coated with ICAM-1, a ligand for beta-2 integrins. SDF1A/CXCR4 signaling axis inhibits beta-2 integrin LFA-1 mediated adhesion of monocytes to ICAM-1 through LYN kinase. Inhibits CXCR4-mediated infection by T-cell line-adapted HIV-1. Plays a protective role after myocardial infarction. Induces down-regulation and internalization of ACKR3 expressed in various cells. Has several critical functions during embryonic development; required for B-cell lymphopoiesis, myelopoiesis in bone marrow and heart ventricular septum formation. Stimulates the proliferation of bone marrow-derived B-cell progenitors in the presence of IL7 as well as growth of stromal cell-dependent pre-B-cells (By similarity).
Form:	Lyophilized
Storage:	Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.
Tags:	NO-tag
Source:	Pichia
Description:	High quality, high purity and low endotoxin recombinant Recombinant Human CXCL12/SDF-1 Protein (RP01637), tested reactivity in Pichia and has been validated in SDS-PAGE. 100% guaranteed.
Endotoxin:	< 0.1 EU/μg of the protein by LAL method.
Bio-Activity:	Measured by its ability to chemoattract MOLT4 cells. The ED 50 for this effect is 11.47-45.86 ng/mL, corresponding to a specific activity of $2.18 \times 10^4 \sim 8.72 \times 10^4$ units/mg.
Formulation:	Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.
Reconstitution:	Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

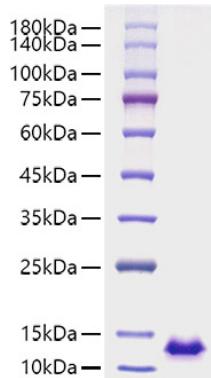
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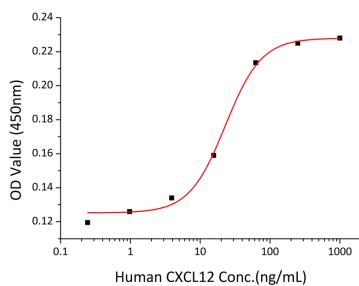
Recombinant Human CXCL12/SDF-1 Protein chemoattract MOLT4 cells. The ED₅₀ for this effect is 11.47-45.86 ng/mL, corresponding to a specific activity of 2.18×10^4 ~ 8.72×10^4 units/mg.



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Recombinant Human CXCL12/SDF-1 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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