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DATA SHEET

Stromal Cell-Derived Factor-1 gamma Human Recombinant (CXCL12)

Item Number	rAP-0256
Synonyms	Stromal cell-derived factor 1, SDF-1, hSDF-1, C-X-C motif chemokine 12, Intercrine reduced in hepatomas, IRH, hIRH, Pre-B cell growth-stimulating factor, PBSF, CXCL12, SDF1, hSDF-1gamma, SDF-1g, TLSF, TPAR1, SCYB12.
Description	SDF-1 gamma Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 99 amino acids and having a molecular mass of 11.6kDa.The SDF-1g is purified by proprietary chromatographic techniques.
Uniprot Accesion Number	P48061
Amino Acid Sequence	GKPVSLSYRC PCRFFESHVA RANVKHLKIL NTPNCALQIV ARLKNNNRQV CIDPKLKWIQ EYLEKAL-NKG RREEKVGKKE KIGKKKRQKK RKAAQKRKN.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized SDF-1g although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution SDF-1 gamma should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
Formulation and Purity	SDF-1g protein was lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4. Greater than 96.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized SDF-1g in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The biological activity determined by a chemotaxis bioassay using PHA and rHuIL-2 activated human peripheral blood T-lymphocytes is in a concentration range of 30-100 ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for Research Use Only