

Active Recombinant Human CXCL12, biotinylated

Cat. No. CXCL12-133H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant human CXCL12a is produced in E. coli, biotinylated. Biotinylated enzymatically at the last lysine in the sequence.
Species	Human
Source	E.coli
Description	CXCL12a and CXCL12b, also known as Stromal Cell-Derived Factor 1 α and 1 β (SDF-1 α and SDF-1 β), are small cytokines that belong to the intercrine family. Both forms of CXCL12 are produced by alternate splicing of the same gene.
Form	Lyophilized.
Bio-activity	EC50 = 2.5nm determined by Calcium Flux with recombinant human CXCR4 cells. Migration confirmed with U937 cells expressing CXCR4.
Molecular Mass	10.4kDa by Mass Spec.
AA Sequence	KPVLSYRCPCRFFESHVARANVKHLKILNTPNCALQIVARLKNNNRQVCIDPKLKWIQEYLEKALNKKLGSLN DIFEAQKIEWHE
Endotoxin	<0.01 EU per 1ug of protein by LAL method.
Purity	>97% by SDS-PAGE

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Storage	12 months from date of receipt, -20°C to -70°C, as supplied. 1 month, 2°C to 8°C, under sterile conditions after reconstitution. 3 months, -20°C to -70°C, under sterile conditions after reconstitution.
Reconstitution	Recommended at 100ug/ml in sterile distilled water.
Conjugation	Biotin
GENE INFORMATION	
Gene Name	CXCL12 chemokine (C-X-C motif) ligand 12 [Homo sapiens]
Official Symbol	CXCL12
Synonyms	CXCL12; chemokine (C-X-C motif) ligand 12 (stromal cell-derived factor 1); SF; SCYB12; SDF-1a; SDF-1b; SDF1; SDF-1; SDF1A; SDF1B; TLSF; TLSF-a; TLSF-b; TPAR1; C-X-C motif chemokine 12; Pre-B cell growth-stimulating factor; Stromal cell-derived factor 1 precursor; tromal cell-derived factor 1; stromal cell-derived factor 1 delta; stromal cell-derived factor 1 gamma; stromal cell-derived factor 1a
Gene ID	6387
mRNA Refseq	NM_199168
Protein Refseq	NP_954637
MIM	600835
UniProt ID	P48061
Chromosome	10q11

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Location	
Pathway	CXCR4-mediated signaling events; Chemokine receptors bind chemokines; Chemokine signaling pathway; Class A/1 (Rhodopsin-like receptors); G alpha (i) signalling events; GPCR downstream signaling; HIF-1-alpha transcription factor network;
Function	chemokine activity; emokine activity; growth factor activity; signal transducer activity; receptor binding; CXCR chemokine receptor binding

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