

Cxcl12, 22-89aa, Mouse, His tag, E.coli

Cat.NO.: TP01795

3th Edition

Synonyms:Pbsf, Scyb12, Sdf1, Tlsf, Tpar1

Description:Cxcl12 also known as stromal cell-derived factor 1 isoform alpha. This protein acts as a positive regulator of monocyte migration and a negative regulator of monocyte adhesion via the LYN kinase. It 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. This protein inhibits CXCR4-mediated infection by T-cell line-adapted HIV-1. Cxcl12 protein plays a protective role after myocardial infarction. It induces down-regulation and internalization of ACKR3 expressed in various cells. Recombinant mouse Cxcl12, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques

Form:Liquid. In Phosphate Buffered Saline (pH7.4) containing 10% glycerol

Molecular Weight:10.4kDa (91aa) confirmed by MALDI-TOF

Sequences:

MGSSHHHHHHSSGLVPRGSHMGSKPVLSYRCPCRFFESHIANVKHLKILNTPNCALQIVARLKNNNRQVCIDP
KLKWIQEYLEKALNK

Purity:> 95% by HPLC

Concentration:0.25 mg/ml (determined by Absorbance at 280nm)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

Storage:Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.