

TECHNICAL DATA SHEET

Recombinant Human CXCL12 (SDF-1 beta) (Carrier-free)

Catalog Number: 21-7041

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human CXCL12 (SDF-1 beta) (Carrier-free)

DESCRIPTION

CXCL12 is a stromal derived member of the CXC chemokine family and is strongly chemotactic for lymphocytes and also plays an important role during development. CXCL12 exerts its effects through binding to the CXCR4 receptor.

MOLECULAR MASS

Recombinant human SDF-1 beta is an 8.5 kDa protein containing 72 amino acid residues.

AMINO ACID SEQUENCE

KPVLSYRCP CRFFESHVAR ANVKHLKILN TPNCALQIVA RLKNNNRQVC IDPKLKWIQE YLEKALNKRF KM

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/μg of protein (<1 EU/μg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

Determined by its ability to chemoattract human peripheral T cells activated with PHA and IL-2 using a concentration range of 20-80 ng/ml.

RESEARCH AREAS

AIDS/HIV; Chemotaxis; Immune System; Inflammation; Neurobiology; Stem Cells & Differentiation; Wound Healing

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Nagasawa T, Kikutani H, Kishimoto T. 1994. Proc Natl Acad Sci U S A. 91(6): 2305-2309. Valenzuela-Fernández A, Planchenault T, Baleux F, Staropoli I, Le-Barillec K, Leduc D, Delaunay T, Lazarini F, Virelizier JL, Chignard M, Pidard D, Arenzana-Seisdedos F. 2002. J Biol Chem. 277(18): 15677-15689. Kortesidis A1, Zannettino A, Isenmann S, Shi S, Lapidot T, Gronthos S. 2005. Blood. 105(10): 3793-3801.

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