

TECHNICAL DATA SHEET

Recombinant Mouse IL-22 (Carrier-free)

Catalog Number: 21-8221

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Mouse IL-22 (Carrier-free)

DESCRIPTION

IL-22 is a member of the IL-10 family of regulatory cytokines which includes IL-10, IL-19, IL-20, IL-22, IL-24 and IL-26. Members of this family share partial homology in their amino acid sequences, but they are dissimilar in their biological functions. IL-22 is produced by activated dendritic cells and T lymphocytes. IL-22 signals through a receptor system consisting of IL-10R-beta, CRF2-4 and IL-22R.

MOLECULAR MASS

Recombinant Mouse IL-22 is a 33.4 kDa non-disulfide-linked homodimeric protein composed of two 146 amino acid polypeptide chains.

AMINO ACID SEQUENCE

MLPVNTRCKL EVSNFQQPYI VNRTFMLAKE ASLADNNTDV RLIGEKLFRG VSAKDQCYLM KQVLNFTLED VLLPQSDRFQ
PYMQEVVPFL TKLSNQLSSC HISGDDQNIQ KNVRRCLKETV KKLGESGEIK AIGELDLLFM SLRNACV

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

N/A

BIOACTIVITY

Assay#1: Calculated by its ability to activate STAT following receptor ligand interaction. **Assay#2:** ED₅₀ of 1.0-2.0 ng/ml is determined by its ability to induce IL-10 secretion in COLO 205 (human colon carcinoma cells).

RESEARCH AREAS

RECONSTITUTION

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

REFERENCES

Jones BC, NJ Logsdon and MR Walter 2008 Structure 16: 1333–1344. Xie MH, S Aggarwal, WH Ho, J Foster, Z Zhang, J Stinson, WI Wood, AD Goddard and AL Gurney 2000 J Biol Chem 275: 31335–31339. Pestka S, CD Krause, D Sarkar, MR Walter, Y Shi and PB Fisher 2004 Annu Rev Immunol 22: 929–979. Takatori H, Y Kanno, WT Watford, CM Tato, G Weiss, II Ivanov, DR Littman and JJ O'Shea 2009 J Exp Med 206: 35–41. Moore KW, R de Waal Malefyt, RL Coffman and A O'Garra 2001 Annu Rev Immunol 19: 683–765. Sonnenberg GF, MG Nair, TJ Kirn, C Zaph, LA Fouser and D Artis 2010 J Exp Med 207: 1293–305.

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