

TECHNICAL DATA SHEET

Recombinant Human Lin28-TAT (Carrier-Free)

Catalog Number: 21-9059

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Lin28-TAT (Carrier-Free)

DESCRIPTION

Lin28 is a RNA-binding protein that belongs to a diverse family of structurally-related transcription factors. Lin28 is found abundantly in embryonic stem cells (ESCs), and to a lesser extent in placenta and testis. Lin28 has been shown to block let-7 microRNA processing and maturation, a necessary step in the differentiation of stem cells and certain cancer cell lines.

MOLECULAR MASS

Recombinant Human Lin28-TAT is a 24.4 kDa protein containing 222 amino acid residues, including a 13-residue C-terminal TAT peptide.

AMINO ACID SEQUENCE

GPSVSNQQFA GGCAGAAEEA PEEAPEDAAR AADEPQLLHG AGICKWFNVR MGFGLSMTA RAGVALDPPV DVFVHQSKLH MEGFRSLKEG
EAVEFTFKKS AKGLESIRVT GPGGVFCIGS ERRPKGKSMQ KRRSKGDRCY NCGGLDHHAK ECKLPPQPKK CHFCQSISHM VASCPLKAQQ
GPSAQQKPTY FRIEEEEIHS PTLLEPAQNG GYGRKKRRQR RR

SOURCE

E.coli

APPLICATIONS

Bioassay

PURITY

90 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

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

AUTHENTICITY

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

CROSS REACTIVITY

BIOACTIVITY

Measured by its ability to induce fluorescence in Lin28 reporter cells (293 cells transfected with fluorescent protein genes under Lin28 control). Optimum activity was achieved at 20 ug/ml after incubation for 72 hr.

RESEARCH AREAS

Stem Cells & Differentiation, Cancer

RECONSTITUTION

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

REFERENCES

Fu Y, Gao L, Shi Z, You F, Zhang J, Li W. Fish Physiol Biochem. 2017 Dec 7. doi: 10.1007/s10695-017-0445-1. Chandrasekaran S, Zhang J, Sun Z, Zhang L, Ross CA, Huang YC, Asara JM, Li H, Daley GQ, Collins JJ. Cell Rep. 2017 Dec 5;21(10):2965-2977. doi: 10.1016/j.celrep.2017.07.048.

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