

Bioassayplus Inc.

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Certificate of Analysis

Important Note: centrifuge before opening to ensure complete recovery of vial contents.

Product name: Reprogramming factor Lin28-TAT

Catalog: Lin28-TAT

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. Together with Sox2, Oct4, and Nanog, Lin28 can induce the reprogramming of primary human fibroblasts to a pluripotent state. Lin28 and other regulatory proteins can be introduced into cells by DNA transfection, viral infection, or microinjection. Protein transduction using TAT fusion proteins represents an alternative methodology for introducing proteins into primary as well as transformed cells. Recombinant human Lin28-TAT is a 24.4 kDa protein containing 222 amino acid residues, including 13- residue C-terminal TAT peptide

Protein structure: Lin28 was expressed from *E. coli*, migrating around 27kDa on 10% SDS-PAGE with the purity 90%.

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HMGPSVSNQQFAGGCCAKAAEEAPEEAPEDAARAADPEQLLHGAGICKWFN
VRMGFGFLSMTARAGVALDPPVDVVFVHQSKLHMEGFRSLKEGEAVEFTFK
KSAKGLSIRVTGPGGVFCIGSERRPKGGKSMQKRRSKGDRCYNCGGLDHH
AKECKLPPQPQPKKCHFCQSI SHMVASCPLKAQQGSAQGKPTYFREEEEEI
HSPTLLPEAQNGGYGRKKRRQRRLE
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Source: *E. coli*

Format: Purified, Liquid, filtered for cell culture

Molecular weight: 27 kDa

Purity: >90% pure (SDS-PAGE, Coomassie blue stain).

Concentration: 1.0 mg/ml (Lot 11/2017)

Buffer: PBS with 50mM arginine

Storage: store in 4°C for short time only, aliquot to avoid repeated freezing and thawing, store at -20°C.

Applications: Cell biological study

