

Lin28-TAT Human E. coli

Product Data Sheet

Type: Recombinant	Cat. No.:	
Source: E. coli	RBG10207005	(5 µg)
Species: Human	RBG10207025	(25 µg)
Other names: CSDD1, LIN28A, ZCCHC1	RBG10207100	(100 µg)

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 a 13-residue C-terminal TAT peptide.

Research topic

Oncology

Amino Acid Sequence

GPSVSNQQFA GGCAKAAEEA PEEAPEDAAR AADEPQLLHG AGICKWFNVN MFGFFLSMTA RAGVALDPPV DVFVHQSKLH
MEGFRSLKEG EAVEFTFKKS AKGLESIRVT GPGGVFCIGS ERRPKGKSMQ KRRSKGDRCY NCGGLDHHAK ECKLPPQPKK
CHFCQSI SHM VASCPLKAQQ GP

Source

E. coli

Purity

90%

Biological Activity

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 µg/ml after incubation for 72 hr.

Endotoxin

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

Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 1.0 mg/ml. Do not vortex. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Storage, Stability/Shelf Life

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