Nanog Human E. coli

Product Data Sheet

Type: Recombinant
Source: E. coli
Species: Human
Other names: ,

Cat. No.:

RBG10240005	(5 µg)
RBG10240020	(20 µg)
RBG10240100	(100 µg)

Description

Nanog is a regulatory protein that is associated with undifferentiated pluripotent cells. The expression of nanog, which is suppressed in all adult tissues, is restricted to embryonic stem cells and to certain pluripotent cancer cells. Decreased expression of nanog is strongly correlated with cell differentiation. Nanog, most likely, acts as an intracellular regulator, that helps maintain pluripotency and self renewal via a STAT3-independent pathway. Recombinant Human Nanog is a 34.7 kDa protein, which is synthesized as a 304 amino acid polypeptide lacking a signal sequence for secretion.

Research topic

Others

Amino Acid Sequence

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SVDPACPQSL PCFEASDCKE SSPMPVICGP EENYPSLQMS SAEMPHTETV SPLPSSMDLL IQDSPDSSTS PKGKQPTSAE
NSVAKKEDKV PVKKQKTRTV FSSTQLCVLN DRFQRQKYLS LQQMQELSNI LNLSYKQVKT WFQNQRMKSK RWQKNNWPKN
SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLPMWSNQTW NNSTWSNQTQ NIQSWSNHSW NTQTWCTQSW NNQAWNSPFY
NCGEESLQSC MQFQPNSPAS DLEAALEAAG EGLNVIQQTT RYFSTPQTMD LFLNYSMNMQ PEDV
```

Source

E. coli

Purity

95%

Biological Activity

Data Not Available.

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 0.1-1.0 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

-20°C

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