



# Recombinant Human Nanog

20150227BB



**FOR RESEARCH ONLY! NOT FOR HUMAN USE!**

|                  |                            |
|------------------|----------------------------|
| <b>Cat.-no.:</b> | <b>100-350S</b>            |
| <b>Size:</b>     | 5 µg                       |
| <b>Lot. No.:</b> | According to product label |

### Sequence

```
SVDFACPQSL PCFEASDCKE SSPMPVICGP EENYPQLQMS
SAEMPHTETV SPLPSSMDLL IQDSPDSSTS PKGKQPTSAE
NSVAKKEDKV PVKKQKTRTV FSSTQLCVLN DRFQRQKYLK
LQQMQEELSNI LNLSYKQVKT WFQNQRMKSK RWQKNNWPKN
SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLPMWSNQTW
NNSTWSNQTT NIQSWSNHSW NTQTWCTQSW NNQAWNSPFY
NCGEESLQSC MQFQPNPAS DLEAALEAAG EGLNVIQOTT
RYFSTPQTM D LFLNYSMMNQ PEDV
```

### Database References

|                        |             |
|------------------------|-------------|
| <b>Protein RefSeq:</b> | NP_079141.2 |
| <b>Uniprot ID:</b>     | Q9H9S0      |
| <b>mRNA RefSeq:</b>    | NM_024865   |

## Scientific Background

|                        |       |
|------------------------|-------|
| <b>Gene-ID (NCBI):</b> | 79923 |
| <b>Synonyms:</b>       | NANOG |

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, which maintains pluripotency and self renewal via a STAT3 independent pathway. Recombinant human Nanog is a 34.5 kDa protein, which is synthesized as a 304 amino acid polypeptide lacking a signal sequence for secretion.

## Product Specifications

|                        |                                    |
|------------------------|------------------------------------|
| <b>Expressed in</b>    | E. coli                            |
| <b>Purity</b>          | > 95% by SDS-PAGE & HPLC analyses  |
| <b>Endotoxin level</b> | < 0.1 ng /µg of protein (<1EU/µg). |
| <b>Formulation</b>     | lyophilized                        |
| <b>Length (aa):</b>    | 304                                |
| <b>MW:</b>             | 34.5 kDa                           |

**Biological Activity:** Data not available.



**AVOID REPEATED FREEZE AND THAW CYCLES!**