

Recombinant Human NANOG

Cat. No. NANOG-28442TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length protein, corresponding to amino acids 2-305 of Human Nanog (34.5 kDa).
Species	Human
Source	E.coli
Description	NANOG (pron. nanOg) is a transcription factor critically involved with self-renewal of undifferentiated embryonic stem cells. In humans, this protein is encoded by the NANOG gene.
Tissue specificity	Expressed in testicular carcinoma and derived germ cell tumors (at protein level). Expressed in fetal gonads, ovary and testis. Also expressed in ovary teratocarcinoma cell line and testicular embryonic carcinoma. Not expressed in many somatic organs and
Form	Lyophilised:Reconstitute to 1mg/ml using sterile water.
Purity	>95% by SDS-PAGE
Storage buffer	Preservative: NoneEndotoxin level is less than 0.1 ng per µg (1EU/µg).
Storage	The lyophilized protein is stable for a few weeks at room temperature, but best stored at -20°C.

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Sequences of amino acids

SVD PACPQSL PCFEASDCKE SSPMPVICGP EENYPQLQMS SAEMPHTETV
 SPLPSSMDLL IQDSPDSSTS PKGKQPTSAE NSVAKKEDKV PVKKQKTRTV
 FSSTQLCVLN DRFQRQKYL S LQQMQELSNI LNLSYKQVKT WFQNQRMKSK
 RWQKNNWPKN SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLP MWSNQTW
 NNSTWSNQ TQ NIQSWSNHSW NTQTWCTQSW NNQAWN SPFY NCGEESLQSC
 MQFQPN SPAS DLEAALEAAG EGLNVIQQT RYFSTPQTMD LFLNYSMMNMQ
 PEDV

Sequence Similarities

Belongs to the Nanog homeobox family. Contains 1 homeobox DNA-binding domain.

GENE INFORMATION

Gene Name [NANOG Nanog homeobox \[Homo sapiens \]](#)

Official Symbol [NANOG](#)

Synonyms NANOG; Nanog homeobox; homeobox protein NANOG; FLJ12581; FLJ40451;

Gene ID [79923](#)

mRNA Refseq [NM_024865](#)

Protein Refseq [NP_079141](#)

MIM [607937](#)

Uniprot ID [Q9H9S0](#)

Chromosome Location 12p13.31

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Pathway	Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;
Function	DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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