

Recombinant Human Nanog

Cat. No. NANOG-3604H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NANOG protein was expressed in E.coli and purified by using conventional chromatography (1-305aa).
Species	Human
Source	E.coli
ProteinLength	1-305 a.a.
Description	Nanog homeobox, also known as nanog, is a member of the homeobox family of DNA binding transcription factors that has been shown to maintain pluripotency of embryonic stem cells. Nanog expression counteracts the differentiation-promoting signals induced by the extrinsic factors LIF, Stat3 and BMP. Once NANOG expression is downregulated, cell differentiation can proceed. Proteins which regulate NANOG expression include transcription factors Oct4, SOX2, FoxD3, and Tcf3 and tumor suppressor p53.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 5% glycerol
Molecular Weight	34.6 kDa (305aa)
Purity	> 90% by SDS - PAGE
Concentration	1 mg/ml (determined by Bradford assay)

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Sequences of amino acids

MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPQLQM SSAEMPHTET
 VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPKKKQKTRT
 VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS
 KRWQKNNWPK NSNGVTQKAS APTYPSLYSS YHQGCLVNPT GNLPMWSNQT
 WNNSTWSNQT QNIQSWSNHS WNTQTWCTQS WNNQAWNSPF YNCGEESLQS
 CMQFQPNSPA SDLEAALEAA GEGLNVIQQT TRYFSTPQTM DLFLNYSMNM
 QPEDV

Storage

Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

GENE INFORMATION
Gene Name

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

Official Symbol

NANOG

Synonyms

Nanog homeobox; NANOG; homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48; FLJ12581; FLJ40451; hNanog; Homeobox transcription factor Nanog; Nanog homeobox

Gene ID

[79923](#)

mRNA Refseq

[NM_024865](#)

Protein Refseq

[NP_079141](#)

MIM

[607937](#)

UniProt ID

[Q9H9S0](#)

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Chromosome Location	12p13.31
Function	sequence-specific DNA binding; transcription factor activity