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)

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Sequences of amino acids	MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT 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

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