Recombinant Human NANOG, His-tagged

Cat. No. NANOG-3603H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human NANOG protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography (1-154aa).
Species	Human
Source	E.coli
Description	NANOG, also known as nanog homeobox, 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 down-regulated, cell differentiation can proceed.
Form	Liquid. 20mM Tris-HCl buffer (pH8.0) containing 20% glycerol, 1mM DTT
Molecular Weight	19.6 kDa (174aa), confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)
Purity	> 90% by SDS - PAGE
Concentration	0.25 mg/ml (determined by Bradford assay)
Sequences of amino acids	MGSSHHHHHH SSGLVPRGSH MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN

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

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