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# Recombinant human Nanog protein

Catalog Number: ATGP1124

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-154aa

#### UniProt No.

O9H9S0

#### **NCBI Accession No.**

NP 079141

#### **Alternative Names**

Nanog homeobox, hNanog, Homeobox protein NANOG, Homeobox transcription factor Nanog

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

19.6 kDa (174aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

0.25mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

# **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **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. Recombinant human NANOG protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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# **Amino acid Sequence**

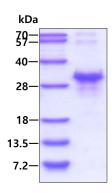
<MGSSHHHHHH SSGLVPRGSH> MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQ

### **General References**

Clark A T., et al. (2004) Stem Cells. 22:169-179. Chambers I., et al. (2003) Cell Res. 13:499-502.

# **DATA**

### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

