

**NANOG, 1-154aa, Human, His tag, E.coli**

**Cat.NO.: TP03087**

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3th Edition

**Synonyms:**Homeobox protein NANOG, Homeobox transcription factor Nanog, homeobox transcription factor Nanog-delta 48

**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)

**Sequences:**

MGSSHHHHHHSSGLVPRGSHMSVDPACPQSLPCFEASDCKESSPMPVICGPEENYPQLMSSAEMPHTETVSPL  
PSSMDLLIQDSPDSSTSPKGGKQPTSAEKSVAKKEDKVPVKKQKTRTVFSSTQLCVLNDRFQRQKYLSQLQMQELS  
NILNLSYKQVKTWFQNQRMKSKRWQ

**Purity:**> 95% by HPLC

**Concentration:**0.25 mg/ml (determined by Bradford assay)

**Endotoxin Level:**<1.0 EU per 1 ug of protein (determined by LAL method)

**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.