

NANOG, 1-305aa, Human, E.coli

Cat.NO.: TP03088

3th Edition

Synonyms:Nanog homeobox, Homeobox transcription factor Nanog, homeobox transcription factor Nanog-delta
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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.

Form:Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 10% glycerol.

Molecular Weight:34.6 kDa (305aa)

Sequences:

MSVDPACPQSLPCFEASDCKESSMPVICGPEENYPQLQMSSAEMPHTETVSPPLSSMDLLIQDSPDSSTSPKGGK
QPTSAEKSVAKKEDKVPVKKQKTRTVFSSTQLCVLNDRFQRQKYLQLQMQELSNILNLSYKQVKTFQNRMK
KRWQKNNWPKNSNGVTQKASAPTYPSTLYSSYHQGCLVNPTGNLPMWSNQTWNNSTWSNQTQNIQSWSNHSW
NTQTWCTQSWNNQAWNSPFYNCGEESLQSCMQFQPNSPASDLEAALEAAGEGLNVIQQTTRYFSTPQTMDLFLN
YSMNMQPEDV

Purity:> 95% by HPLC

Concentration:1 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.