

AR39082PU-N

Human NANOG (1-305) - Purified

Alternate names:

Homeobox protein NANOG

Quantity:

0.1 mg

Concentration:

1.0 mg/ml (determined by Bradford assay)

Background:

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.

Uniprot ID:

[Q9H9S0](#)

NCBI:

[NP_079141](#)

GeneID:

[79923](#)

Species:

Human

Source:

E. coli

Format:

State: Liquid purified protein

Purity: >90%

Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 0.4M Urea, 5% glycerol

Description:

Recombinant human Nanog was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHET VSPLPSSMDL
LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL
SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQKNNWPK NSNGVTQKAS APTYPSLYSS
YHQGCLVNPT GNLPMWSNQT WNNSTWSNQT QNIQSWSNHS WNTQTWCTQS WNNQAWNPF
YNCGEESLQS CMQFQPNSPA SDLEAALEAA GEGLNVIQQT TRYFSTPQTM DLFLNYSMMN QPEDV

Molecular weight: 34.6 kDa (305aa)

Storage:

Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings:

Clark A T., et al. (2004) Stem Cells. 22:169-179.

Chambers I., et al. (2003) Cell Res. 13:499-502.

Pictures:

Recombinant human Nanog, 1-305 aa

