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AR39064PU-N Human NANOG (1-154, His-tag) - Purified

Alternate names: Homeobox protein NANOG

Quantity: 50 µg

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

Background: 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.

Uniprot ID: Q9H9S0

NCBI: NP_079141

GeneID: 79923

Species: Human

Source: E. coli

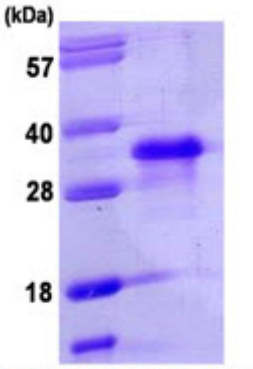
Format:
State: Liquid purified protein
Purity: >90%
Buffer System: 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol, 1mM DTT

Description: Recombinant human NANOG protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography.
AA Sequence:
MGSSHHHHHH SSGLVPRGSH MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQ
Molecular weight: 19.6 kDa (174aa), confirmed by MALDI-TOF
(Molecular weight on SDS-PAGE will appear higher).

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.

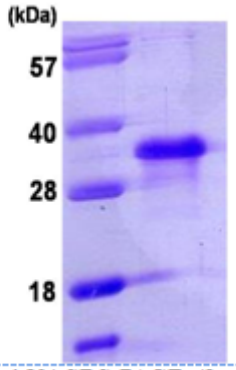
General Readings:
Clark A T., et al. (2004) Stem Cells. 22:169-179.
Chambers I., et al. (2003) Cell Res. 13:499-502.

Pictures:



15% SDS-PAGE (3ug)

Recombinant human NANOG 1-154aa, His-tagged



15% SDS-PAGE (3ug)