

## NANOG Human, His

**Description:** NANOG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 174 amino acids (1-154) and having a molecular mass of 19.6 kDa. The NANOG is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Catalog #:** PRPS-888

For research use only.

**Synonyms:** NANOG, Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MSVDPAC PQS LPCFEASDCK  
ESSPMPVICG PEENYP SLQM SSAEMPH TET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA  
EKSVAKKEDK VPKVKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK  
TWFQNQRMK S KRWQ

**Purity:** Greater than 90.0% as determined by SDS-PAGE.

**Formulation:**

NANOG protein (0.25mg/ml) is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

NANOG is a multidomain homeobox transcription factor which functions to maintain the undifferentiated state of pluripotent 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.

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