

NANOG Human

Description: NANOG Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 305 amino acids (1-305) and having a molecular mass of 34.6 kDa. The NANOG is purified by proprietary chromatographic techniques.

Catalog #: PRPS-903

For research use only.

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

Source: E.coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM
SSAEMPHET VSPLSSMDL LIQDPSDST SPKGKQPTSA EKSVAKKEDK VPKKQKTRT
VFSSTQLCVL NDRFQRQKYL SLQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQKNNWPK
NSNGVTQKAS APTYPSLYSS YHGGCLVNPT GNLPMWSNQT WNNSTWSNQT QNIQSWSNHS
WNTQTWCTQS WN

Purity: Greater than 90% as determined by SDS-PAGE.

Formulation:

The NANOG solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 5% 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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