

## NANOG-TAT Human

**Description:** NANOG Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide chain containing 305 amino acids and having a molecular mass of 34.6kDa. The NANOG is fused to an N-terminal TAT (transcriptional activator protein) tag and purified by proprietary chromatographic techniques.

Catalog #: PRPS-097

For research use only.

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

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gly-Arg-Lys-Lys.

**Purity:** Greater than 95.0% as determined by: (a) Analysis by SEC-HPLC. (b) Analysis by SDS-PAGE.

**Formulation:**

NANOG was lyophilized after extensive dialysis against PBS.

**Stability:**

Lyophilized NANOG although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution NANOG should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent 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.

**Solubility:**

It is recommended to reconstitute the lyophilized NANOG in sterile PBS not less than 100

**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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