

### 32-4283: Recombinant Human Nanog-TAT

**Alternative Name :** NANOG,Homeobox protein NANOG,Homeobox transcription factor Nanog,hNanog.

#### Description

Source : Escherichia Coli. 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. 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.

#### Product Info

<b>Amount :</b>	20 µg
<b>Purification :</b>	Greater than 95.0% as determined by:(a) Analysis by SEC-HPLC.(b) Analysis by SDS-PAGE.
<b>Content :</b>	NANOG was lyophilized after extensive dialysis against PBS.
<b>Storage condition :</b>	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.
<b>Amino Acid :</b>	The sequence of the first five N-terminal amino acids was determined and was found to be Met-Gly-Arg-Lys-Lys.

#### Application Note

It is recommended to reconstitute the lyophilized NANOG in sterile PBS not less than 100Åµg/ml, which can then be further diluted to other aqueous solutions.

