

## Recombinant Human NANOG Protein

Cat. No. NANOG-14H Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant human NANOG-TAT (rhNANOG-TAT) produced in E. coli is a single chain, 318 amino acids non-glycosylated polypeptide. A fully biologically active molecule, rhNANOG-TAT has a molecular mass of 36.2kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.

**Species** Human

**Source** E.coli

**Description** The protein encoded by this gene is a DNA binding homeobox transcription factor involved in embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Two transcript variants encoding different isoforms have been found for this gene.

**Form** Sterile Filtered White lyophilized (freeze-dried) powder.

**Molecular Mass** 36.2 kDa, analyzed by reducing SDS-PAGE.

**AA Sequence**  
MSVDPACPQSLPCFEASDCKESSPMPVICGPEENYPQLMSSAEMPHTETVSPLPS  
SMDLLIQDSPDSSTSPKQKQPTSAENSVAKKEDKVPVKKQKTRTVFSSTQLCVLND  
RFQRQKYLSQLQMQELSNILNLSYKQVKTWFQNRMKSKRWQKNNWPKNSNGVT  
QKASAPTYPSLYSSYHQGCLVNPTGNLPMWSNQTWNNSTWSNQTQNIQSWSNHS  
WNTQTWCTQSWNNQAWNSPFYNCGEESLQSCMQFQPNSPASDLEAALEAAGEG  
LNVIQQTTRYFSTPQTMDLFLNYSMNMQPEDVGGYGRKKRRQRRR

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% by SDS-PAGE and HPLC analyses.
<b>Storage</b>	Recombinant human NANOG-TAT (rhNANOG-TAT) remains stable up to 1-2 weeks at 4 centigrade from date of receipt. For long term storage, aliquot and store at -20 or -80 centigrade. Avoid repeated freezing and thawing cycles.
<b>Storage Buffer</b>	Sterile Filtered solution contains 10mM PB, 300mM NaCl, pH7.4.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	NANOG Nanog homeobox [ Homo sapiens (human) ]
<b>Official Symbol</b>	NANOG
<b>Synonyms</b>	NANOG; Nanog homeobox; homeobox protein NANOG; homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48
<b>Gene ID</b>	79923
<b>mRNA Refseq</b>	NM_024865
<b>Protein Refseq</b>	NP_079141
<b>MIM</b>	607937
<b>UniProt ID</b>	Q9H9S0

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