

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	MSVDPACPQSLPCFEASDCKESSMPVICGPEENYPQLMSSAEMPHTETVSPLPS SMDLLIQDSPDSSTSPKGKQPTSAENSVAKKEDKVPVKKQKTRTVFSSTQLCVLND RFQRQKYLSQLQMQLSNILNLSYKQVKTWTFQNRMKSKRWQKNNWPKNSNGVT QKASAPTYPSTLYSSYHQGCLVNPTGNLPMWSNQTNWNNSTWSNQTNQNIQSWSNHS WNTQTWCTQSWNNQAWNSPFYNCGEESLQSCMQFQPNSPASDLEAALEAAGEG LNVIQQTTRYFSTPQTMDLFLNYSNMNMQPEDVGGYGRKKRRQRRR

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Storage	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.
Storage Buffer	Sterile Filtered solution contains 10mM PB, 300mM NaCl, pH7.4.
Reconstitution	Reconstituted in ddH2O or PBS at 100 μg/mL.

GENE INFORMATION

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

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