Overview

Synonyms	None
Description	**NANOG** is a transcription factor involved with self-renewal of inner cell mass and embryonic stem (ES) cells by functioning in concert with other factors such as POU5F1 (Oct-4) and SOX2. Nanog imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages, and blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes. 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*
Sequence	MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA ENSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQKNNWPK NSNGVTQKAS APTYPSLYSS YHQGCLVNPT GNLPMWSNQT WNNSTWSNQT QNIQSWSNHS WNTQTWCTQS WNNQAWNSPF YNCGEESLQS CMQFQPNSPA SDLEAALEAA GEGLNVIQQT TRYFSTPQTM DLFLNYSMNM QPEDVGGYGR KKRRQRRR

Properties

Measured Molecular Weight	36.2 kDa, analyzed by reducing SDS-PAGE.
Purity	> 95% by SDS-PAGE and HPLC analyses.
Formulation	Sterile Filtered solution contains 10mM PB, 300mM NaCl, pH7.4.
Endotoxin Level	< 0.2 EU/μg, determined by LAL method.
Storage	Recombinant **human NANOG-TAT (rhNANOG-TAT)** remains stable up to 1-2 weeks at 4°C from date of receipt. For long term storage, aliquot and store at lower than -70°C. Avoid repeated freezing and thawing cycles.
Note	For research use only

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