PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant NANOG-TAT, Human

Catalog Number: BK0142-100μg Source: Escherichia coli. Quantity: 100μg

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 at GenScript.

Molecular Weight:

36.2 kDa, analyzed by reducing SDS-PAGE.

Purity:

> 95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Sterile Filtered solution contains 10mM PB, 300mM NaCl, pH7.4.

AA Sequence:

MSVDPACPQSLPCFEASDCKESS-
PMPVICGPEENYPSLQMS-
SAEMPHTETVSPLPSSMDLLIQD-
SPDSSTSPKGKQPTSAENSVAKKEDKVPVKKQK
TRTVFSSTQLCVLNDRFQRQKYLSLQQMQELS-
NILNLSYKQVKTWFQNQRMKSKRWQKNNWP-
KNSNGVTQKASAPTYPSLYSSYHQGCLVNPTGN-
SYHQGCLVNPTGN-
LPMWSNQTWNNSTWSNQTQNIQSWSNHSWN-
TQTWCTQSWNNQAWNSPFYNCGEESLQSCMQF
QPNSPASDLEAALEAAGEGLNVIQQTTRYF-
STPQTMDLFLNYSMNMQPEDVGGYGRK-
KRRQRRR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Recombinant human NANOG-TAT (rhNANOG-TAT) remains stable up to 1-2 weeks at 4℃ from date of receipt. For long term storage, aliquot and store at -20℃ or -80℃. Avoid repeated freezing and thawing cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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