
Product Data Sheet

Product Name: NANOG-TAT Human
 Cat. No.: GP24003
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	NANOG; Homeobox protein NANOG; Homeobox transcription factor Nanog; hNanog.		
Amino Acid Sequence	VDPACPQSL PCFEASDCKE SSPMPVICGP EENYPSLQMS SAEMPHETTV SPLSSMDLL IQDSPDSSTS PKGKQPTSAE NSVAKKEDKV PVKKQKTRTV FSSTQLCVLN DRFQRQKYL LQQMQELSN LNSYKQVKT WFQNQRMKSK RWQKNNWPKN SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLPMWSNQTW NNSTWSNQTT NIQSWSNHSW NTQTWCTQSW NNQAWNSPFY NCGEESLQSC MQFQPNSPAS DLEAALEAAG EGLNVIQTT RYFSTPQTM D LFLNYSMMQ PEDVGGYGRK KRRQRRR		
Formulation	NANOG protein solution contains PBS and 50mM Arginine.		

Introduction

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.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

NANOG Human Recombinant produced in E.Coli is a single, non-glycosylated, Polypeptide

Caution: Product has not been fully validated for medical applications. For research use only.

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chain containing 304 amino acids and c-terminal 13 amino acid TAT peptide having a molecular mass of 36.1kDa. The NANOG is purified by proprietary chromatographic techniques.

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