
Product Data Sheet

Product Name: NANOG Human, His
 Cat. No.: GP24002
 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	MGSSHHHHHH SSGLVPRGSH MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPQLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGGKQPTSA EKSVAKKEDK VPVKKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQ		
Formulation	NANOG protein (0.25mg/ml) is supplied in 20mM Tris-HCL, pH-8, 1mM DTT and 20% Glycerol.		

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 chain containing 174 amino acids (1-154) and having a molecular mass of 19.6 kDa. The NANOG is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary

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

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chromatographic techniques.

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