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NANOG Human

NANOG Human Recombinant
RCP1448

Product Overview

Name	NANOG Human
Description	
NANOG Human Recombinant	
Accession (Primary)	Q9H9S0
Synonyms	
NANOG, Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog.	
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.	
Source	
E.coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
Formulation	
The NANOG solution (1mg/ml) contains 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 5% glycerol.	
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.	
Purity	
Greater than 90% as determined by SDS-PAGE.	
Amino acid sequence	
MSVDPACPQS LPCFEASDCK ESSPMPVICG PEENYPSLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TWFQNQRMKS KRWQKNNWPK NSNGVTQKAS APTYPSLYSS YHQGCLVNPT GNLPMWSNQT WNNSTWSNQT QNIQSWSNHS WNTQTWCTQS WNNQAWNSPF YNCGEESLQS CMQFQPNSPA SDLEAALEAA GEGLNVIQQT	

TRYFSTPQTM DLFLNYSMNM QPEDV

Precautions

NANOG Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q9H9S0)