

NANOG

Recombinant Human NANOG

Catalog No.	CRN000A CRN000B CRN000C	Quantity:	5 µg 20 µg 1 mg
Alternate Names:	NANOG, Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog.		
Description:	<p>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.</p> <p>NANOG Human Recombinant produced in E. coli is a single, non-glycosylated polypeptide chain containing 305 amino acids (1-305) and having a MW = 34.6 kDa. The NANOG is purified by proprietary chromatographic techniques.</p>		
GeneID:	79923		
Physical Appearance:	Sterile Filtered colorless solution.		
Source:	<i>E. coli</i>		
Molecular Weight:	34.6 kDa		
Formulation:	The NANOG solution (1 mg/ml) contains 20 mM Tris-HCl buffer (pH 8.0), 0.4 M Urea and 5% glycerol.		
Purity:	Greater than 90% as determined by SDS-PAGE.		
Endotoxin Level:	Less than 0.1 ng per µg (1 EU/µg)		
Amino Acid Sequence:	MSVDPAC PQS LPCFEASDCK ESSPMPVICG PEENYP SLQM SSAEMPHTET VSPLPSSMDL LIQDSPDSST SPKGKQPTSA EKSVAKKEDK VPVKKQKTRT VFSSTQLCVL NDRFQRQKYL SLQQMQELSN ILNLSYKQVK TW FQNQRMKS KRWQKNNWPK NSNGVTQKAS APTYP SLYSS YHQGCLVNPT GNLPMWSNQT WNNSTWSNQT QNIQSWSNHS WNTQTWCTQS WNNQAWNSPF YNCGEESLQS CMQFQPNSPA SDLEAALEAA GEGLNVIQQT TRYFSTPQTM DLFLNYSMMN QPEDV		
Storage & Stability:	<p>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).</p> <p>Avoid multiple freeze-thaw cycles.</p>		

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