

NANOG Protein, Human (His-SUMO)

Cat. No.:	HY-P7391
Synonyms:	rHuNANOG-TAT; Homeobox protein NANOG
Species:	Human
Source:	E. coli
Accession:	Q9H9S0 (M1-V305)
Gene ID:	79923
Molecular Weight:	Approximately 36.2 kDa

PROPERTIES

AA Sequence	<pre> MSVDPAC PQS L P C F E A S D C K E S S P M P V I C G P E E N Y P S L Q M S S A E M P H T E T V S P L P S S M D L L I Q D S P D S S T S P K G K Q P T S A E N S V A K K E D K V P V K K Q K T R T V F S S T Q L C V L N D R F Q R Q K Y L S L Q Q M Q E L S N I L N L S Y K Q V K T W F Q N Q R M K S K R W Q K N N W P K N S N G V T Q K A S A P T Y P S L Y S S Y H Q G C L V N P T G N L P M W S N Q T W N N S T W S N Q T Q N I Q S W S N H S W N T Q T W C T Q S W N N Q A W N S P F Y N C G E E S L Q S C M Q F Q P N S P A S D L E A A L E A A G E G L N V I Q Q T T R Y F S T P Q T M D L F L N Y S M N M Q P E D V G G Y G R K K R R Q R R R </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized after extensive dialysis against 10 mM PB, 300 mM NaCl, pH 7.4.
Endotoxin Level	<0.2 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O or PBS.
Storage & Stability	Stored at -20°C. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer. It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	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 ^[1] .
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REFERENCES

[1]. Müntz B, et al. Nanog induces suppression of senescence through downregulation of p27KIP1 expression. J Cell Sci. 2016 Mar 1;129(5):912-20.

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

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