

## Recombinant Human NANOG, His-tagged

Cat. No. NANOG-8468H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NANOG, fused with His tag, was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>Description</b>	<p>NANOG is a transcription factor critically involved with self-renewal of undifferentiated embryonic stem cells. Human NANOG protein is a 305 amino acid protein with a conserved homeodomain motif that is localized to the nuclear component of cells. The homeodomain region facilitates DNA binding. NANOG is thought to function in concert with other factors such as POU5F1 and SOX2 to establish ESC identity. These cells offer an important area of study because of their ability to maintain pluripotency. Nanog is one of the stem cell marker or pluripotency markers.</p>
<b>Form</b>	20 mM Tris-Cl, pH 7.9, 20% Glycerol. 100 mM KCl. 1 mM DTT and 0.2 mM EDTA
<b>Molecular Mass</b>	34.6 kDa
<b>Endotoxin</b>	Less than 1.0 EU/μg by LAL method
<b>Purity</b>	>95% as determined by SDS-PAGE
<b>Storage</b>	-80 °C
<b>Shipping</b>	Dry Ice

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## GENE INFORMATION

<b>Gene Name</b>	NANOG Nanog homeobox [ Homo sapiens ]
<b>Official Symbol</b>	NANOG
<b>Synonyms</b>	NANOG; Nanog homeobox; homeobox protein NANOG; FLJ12581; FLJ40451; hNanog; homeobox transcription factor Nanog; homeobox transcription factor Nanog-delta 48;
<b>Gene ID</b>	79923
<b>mRNA Refseq</b>	NM_024865
<b>Protein Refseq</b>	NP_079141
<b>MIM</b>	607937
<b>UniProt ID</b>	Q9H9S0
<b>Chromosome Location</b>	12p13.31
<b>Pathway</b>	Wnt Signaling Pathway and Pluripotency, organism-specific biosystem;
<b>Function</b>	DNA binding; sequence-specific DNA binding; sequence-specific DNA binding transcription factor activity;

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