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# Recombinant Human NANOG Protein (His Tag)

Catalog Number: PDEH100904

Note: Centrifuge before opening to ensure complete recovery of vial contents.

#### Description

Species Human

Source E.coli-derived Human NANOG protein Lys94-Ser162, with an N-terminal His

 Calculated MW
 7.5 kDa

 Observed MW
 12 kDa

 Accession
 Q9H9S0

Bio-activity Not validated for activity

#### **Properties**

**Purity** > 95% as determined by reducing SDS-PAGE.

Endotoxin < 10 EU/mg of the protein as determined by the LAL method

Storage Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -

80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of

reconstituted samples are stable at < -20°C for 3 months.

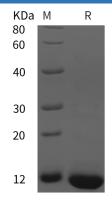
ShippingThis product is provided as lyophilized powder which is shipped with ice packs.FormulationLyophilized from a 0.2 μm filtered solution in PBS with 5% Trehalose and 5%

Mannitol

**Reconstitution** It is recommended that sterile water be added to the vial to prepare a stock solution

of 0.5 mg/mL. Concentration is measured by UV-Vis.

#### **Data**



SDS-PAGE analysis of Human NANOG proteins, 2 µg/lane of Recombinant Human NANOG proteins was resolved with SDS-PAGE under reducing conditions, showing bands at 12 kDa.

### **Background**

Transcription regulator involved in inner cell mass and embryonic stem (ES) cells proliferation and self-renewal. Imposes pluripotency on ES cells and prevents their differentiation towards extraembryonic endoderm and trophectoderm lineages. Blocks bone morphogenetic protein-induced mesoderm differentiation of ES cells by physically interacting with SMAD1 and interfering with the recruitment of coactivators to the active SMAD transcriptional complexes (By similarity). Acts as a transcriptional activator or repressor (By similarity). Binds optimally to the DNA consensus sequence 5'-TAAT[GT][GT]-3' or 5'-[CG][GA][CG]C[GC]ATTAN[GC]-3' (By similarity). When overexpressed, promotes cells to enter into S phase and proliferation.

## For Research Use Only

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