

CA1025

Nanog Recombinant Protein

Prod. No. S2099-20UG
*For Research Use Only
Not intended for use in humans or animals*


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Source	Human
Tested Applications	SDS-PAGE, WB, ELISA, Dot
Sequence	Full length
Epitope tag(s)	none

Background: Nanog is a transcription factor that is critical for maintaining embryonic stem (ES) cell pluripotency and preventing differentiation to germ layers and mature cell lineages. The Nanog protein contains a conserved DNA-binding homeobox domain (AA 98-154). When transfected together with other key pluripotent factors such as OCT4 (Pou5F1) and SOX2, Nanog has been used to enhance the reprogramming of somatic cells into induced pluripotent stem (iPS) cells.

Size: 20 µg

Description: Recombinant full-length human Nanog protein

Expression: Protein was expressed in *E. coli* and refolded to soluble form.

Formulation: 110 µg/ml (determined by Bradford assay) in hs-PBS (1.5 mM KH₂PO₄, 8.1 mM Na₂HPO₄, 500 mM NaCl, 2.7 mM KCl, pH 7.4) + 5% glycerol
Preservative: none

Purity: >90% by SDS-PAGE

Storage: Store at -80 °C.
Avoid multiple freeze-thaws.

Alternative Names: Homeobox protein NANOG, Homeobox transcription factor Nanog, hNanog

Size: 305 residues; 34.6 kDa

Database Links:

RefSeq Protein NP_079141.1
 RefSeq Gene NM_024865.1
 UniProt Q9H9S0

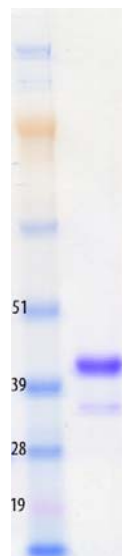
Applications:

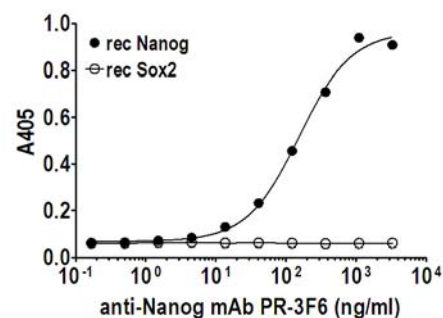
(A) Nanog recombinant protein (1 µg) was resolved by SDS-PAGE and Coomassie stained. The apparent molecular weight of Nanog by electrophoresis is higher than predicted, as reported in the literature.

(B) Western blot detection of Nanog protein (100 ng) using 1 µg/ml Nanog Monoclonal Antibody (PR-3F6).

(A) Indirect ELISA detection of Nanog Recombinant Protein with titrated amounts of Nanog Monoclonal Antibody (PR-3F6).

Note: Representative data are shown (not Lot-specific).

A. SDS-PAGE

B. WB

C. ELISA


Warranty: Each Lot has been verified to meet quality specifications in accordance with testing guidelines. We will replace the product if it does not conform to specifications. Product guaranteed for 6 months from date of purchase if stored as directed. This product must not be resold without written permission from Primorigen Biosciences.

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