

Nanog, human recombinant protein
Homeobox transcription factor Nanog
Catalog # PBV10806r**Specification****Nanog, human recombinant protein - Product info**

Primary Accession [O9H9S0](#)
Calculated MW **34.7 kDa**

Nanog, human recombinant protein - Additional Info

Gene ID	79923
Gene Symbol	Nanog
Other Names	
Homeobox transcription factor Nanog	
Gene Source	Human
Source	E. Coli
Assay&Purity	SDS-PAGE; ≥98%
Assay2&Purity2	HPLC;
Recombinant	Yes
Sequence	SVDPA CPQSL PCFEASDCKE SSPMPVICGP EENYP SLQMS SAEMPH TETV SPLPSSMDLL IQDSPDSSTS PKGKQPTSAE NSVAKKEDKV PVKKQKTRTV FSSTQLCVLN DRFQRQKYLS LQQMQELSNI LNLSYKQVKT WFQNQRMKSK RWQKNNWPKN SNGVTQKASA PTYPSLYSSY HQGCLVNPTG NLP MWSNQTW NNSTWSNQTQ NIQSWSNHSW NTQTWCTQSW NNQAWN SPFY NCGEESLQSC MQFQPN SPAS DLEAALEAAG EGLNVIQTT RYFSTPQTMD LFLNYSMMNQ PEDV

Target/Specificity
Nanog

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format

Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Acetic acid.

Nanog, human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Nanog, human recombinant protein - Images

Nanog, human recombinant protein - Background

Nanog is a regulatory protein that is associated with undifferentiated pluripotent cells. The expression of Nanog, which is suppressed in all adult tissues, is restricted to embryonic stem cells and to certain pluripotent cancer cells. Decreased expression of Nanog is strongly correlated with cell differentiation. Nanog, most likely, acts as an intracellular regulator, which maintains pluripotency and self-renewal via a STAT3 independent pathway. Recombinant human Nanog is a 34.7 kDa protein, which is synthesized as a 304 amino acid polypeptide lacking a signal sequence for secretion.

Nanog, human recombinant protein - References

Mitsui K., et al. Cell 113:631-642(2003).
Clark A.T., et al. Stem Cells 22:169-179(2004).
Kim J.S., et al. Exp. Mol. Med. 37:601-607(2005).
Ota T., et al. Nat. Genet. 36:40-45(2004).
Mural R.J., et al. Submitted (SEP-2005) to the EMBL/GenBank/DDBJ databases.