

Recombinant Mouse Nanog Protein, His tagged, HEK293 Supernatant

Cat. No. Nanog-16M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse Homeobox protein NANOG overexpression cell culture supernatant, secreted from the serum-free medium of transfected HEK293 cells. Purchase will also include one vial of normal control, the culture supernatant of HEK293 cell transfected with empty expression vector.
Species	Mouse
Source	HEK293
ProteinLength	2-305 aa
Description	The protein encoded by this gene is a DNA binding homeobox transcription factor involved in embryonic stem (ES) cell proliferation, renewal, and pluripotency. The encoded protein can block ES cell differentiation and can also autorepress its own expression in differentiating cells. Several transcript variants encoding different isoforms have been found for this gene.
Form	Pink liquid, Culture supernatant of transfected HEK293 cells
Bio-activity	Measured by its binding ability in a transcription factor ELISA. Immobilized DNA containing the Nanog consensus binding sequence (TAATGG) can bind human Nanog with an EC50 of 24.41 AU/mL.
Molecular Mass	34 kDa

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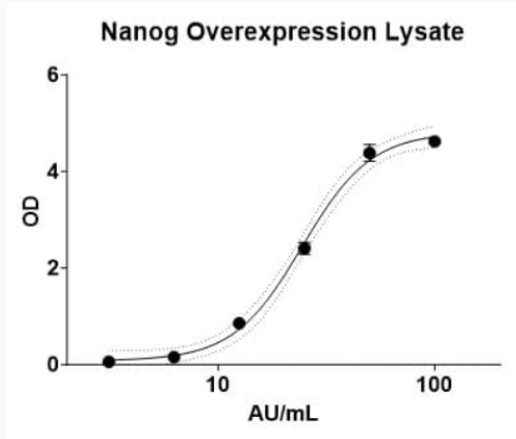
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Purity	Unpurified cell culture supernatant. HEK293 cells grown in serum-free medium were transfected with expression vector harboring target gene. The cell culture was harvested with centrifugation to remove cells. The cell culture supernatant containing mammalian cell protease inhibitor cocktail was aliquoted and stored at -80 centigrade immediately. The gene overexpression in culture supernatant was confirmed by Western blotting using anti-His tag antibody and/or target-specific antibodies and the culture supernatant derived from HEK293 cells transfected with the empty expression vector was used as a negative control.
Storage	Upon arrival, the protein may be stored for 2 weeks at 4 centigrade. For long term storage, it is recommended to store at -20 centigrade or -80 centigrade in appropriate aliquots. Avoid repeated freeze-thaw cycles.
Shipping	Blue ice

GENE INFORMATION

Gene Name	Nanog Nanog homeobox [<i>Mus musculus</i>]
Official Symbol	Nanog
Synonyms	NANOG; Nanog homeobox; homeobox protein NANOG; ES cell-associated protein 4; homeobox transcription factor Nanog; early embryo specific expression NK family; early embryo specific expression NK-type homeobox protein; ENK; ecat4; 2410002E02Rik;
Gene ID	71950
mRNA Refseq	NM_028016
Protein Refseq	NP_082292

Activity



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