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Product datasheet for TP312815M

NANOS2 (NM_001029861) Human Recombinant Protein

Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human nanos homolog 2 (Drosophila) (NANOS2), 100 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC212815 protein sequence Red=Cloning site Green=Tags(s) MQLPPFDMWKDYFNLSQVVWALIASRGQRLETQEIEEPSPGPPLGQDQGLGAPGANGGLGTLCNFCKH NG ESRHVYSSHQLKTPDGVVVCPILRHYVCPVCGATGDQAHTLKYCPLNGGQQSLYRRSGRNSAGRRVKR TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	15 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.
Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_001025032
Locus ID:	339345
UniProt ID:	P60321
RefSeq Size:	1577

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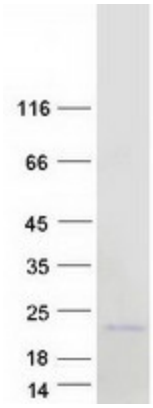
Cytogenetics: 19q13.32

RefSeq ORF: 414

Synonyms: NOS2; ZC2HC12B

Summary: Plays a key role in the sexual differentiation of germ cells by promoting the male fate but suppressing the female fate. Represses the female fate pathways by suppressing meiosis, which in turn results in the promotion of the male fate. Maintains the suppression of meiosis by preventing STRA8 expression, which is required for premeiotic DNA replication, after CYP26B1 is decreased. Regulates the localization of the CCR4-NOT deadenylation complex to P-bodies and plays a role in recruiting the complex to trigger the degradation of mRNAs involved in meiosis. Required for the maintenance of the spermatogonial stem cell population. Not essential for the assembly of P-bodies but is required for the maintenance of their normal state (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Coomassie blue staining of purified NANOS2 protein (Cat# [TP312815]). The protein was produced from HEK293T cells transfected with NANOS2 cDNA clone (Cat# [RC212815]) using MegaTran 2.0 (Cat# [TT210002]).