

Product datasheet for PH312815

NANOS2 (NM_001029861) Human Mass Spec Standard

Product data:

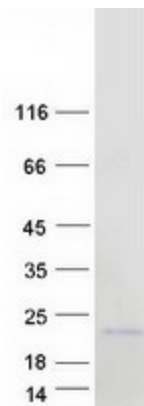
Product Type:	Mass Spec Standards
Description:	NANOS2 MS Standard C13 and N15-labeled recombinant protein (NP_001025032)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC212815
Predicted MW:	15.1 kDa
Protein Sequence:	>RC212815 protein sequence Red =Cloning site Green =Tags(s) MQLPPFDMWKDYFNLSQVWVALIASRGQRLETQEIIEEPPSPGPPLGQDQQLGAPGANGGLGTLNCFCKHNG ESRHVYSSHQKTPDGVVVCPILRHYVCPVCGATGDQAHTLKYCPLNGGQQSLYRRSGRNSAGRRVKR TR TRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- 13C6, 15N4]-L-Arginine and [U- 13C6, 15N2]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_001025032
RefSeq Size:	1577
RefSeq ORF:	414
Synonyms:	NOS2; ZC2HC12B
Locus ID:	339345
UniProt ID:	P60321
Cytogenetics:	19q13.32



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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]).