

Recombinant Human NANOS2 Protein (1-138 aa), His-SUMO-tagged

Cat. No. NANOS2-676H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NANOS2 Protein (1-138 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-SUMO tag at the N-terminal. Research Area: Epigenetics and Nuclear Signaling. Protein Description: Full Length.
Species	Human
Source	E.coli
ProteinLength	1-138 aa
Description	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 preiotic 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.
Form	Tris-based buffer, 50% glycerol
Molecular Mass	31.1 kDa

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

AA Sequence	MQLPPFDMWKDYFNLSQVWVWALIASRGQRLETQEIEEPSPGPPLGQDQGLGAPGA NGGLGTLNCFCKHNGESRHVYSSHQLKTPDGVVVCPILRHYVCPVCGATGDQAHT LKYCPLNGGQQSLYRRSGRNSAGRRVKR
Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA with concentration instruction is sent along with the products.

GENE INFORMATION

Gene Name	NANOS2 nanos homolog 2 (Drosophila) [Homo sapiens]
Official Symbol	NANOS2
Synonyms	NANOS2; nanos homolog 2; NOS2; NOS-2;
Gene ID	339345
mRNA Refseq	NM_001029861
Protein Refseq	NP_001025032
MIM	608228

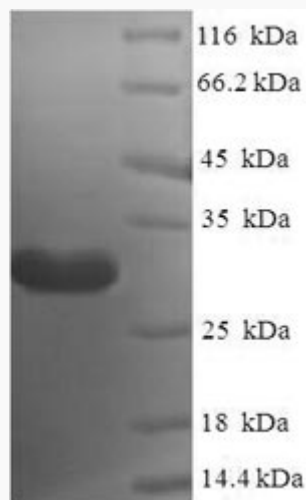
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UniProt ID

P60321



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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