

Recombinant Human Nanos homolog 2(NANOS2)

Catalog No: #AP70574

Package Size: #AP70574-1 20ug #AP70574-2 100ug #AP70574-3 1mg

Description

Product Name	Recombinant Human Nanos homolog 2(NANOS2)
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-138aaSequence Info:Full Length
Accession No.	P60321
Calculated MW	31.1 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MQLPPFDMWKDYFNLSQVWVWALIASRGQRLETQEIEEPPSPGPPLGQDQGLGAPGANGGLTLCNFCKHNGE SRHVYSSHQLKTPDGVVVCPILRHYVCPVCGATGDQAHTLKYCPLNGGQQSLYRRSGRNSAGRRVKR
Formulation	Tris-based buffer50% glycerol
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°C,-80°C. The shelf life of lyophilized form is 12 months at -20°C,-80°C.Notes:Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

Background

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.

References

NANOS3 function in human germ cell development.Julaton V.T., Reijo Pera R.A.Hum. Mol. Genet. 20:2238-2250(2011)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only and is not intended for use in humans or animals.