

Recombinant human Methylosome protein 50

Catalog No: #AP71501



Package Size: #AP71501-1 20ug #AP71501-2 100ug #AP71501-3 1mg

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Description

Product Name	Recombinant human Methylosome protein 50
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% as determined by SDS-PAGE.
Immunogen Description	Expression Region:1-312aaSequence Info:Partial
Other Names	Androgen receptor cofactor p44WD repeat-containing protein 77p44,Mep50
Accession No.	Q9BQA1
Uniprot	Q9BQA1
GeneID	79084;
Calculated MW	49.6 kDa
Tag Info	N-terminal 6xHis-SUMO-tagged
Target Sequence	MRKETPPPLVPPAAREWNLPPNAPACMERQLEAARYRSDGALLLGASSLSGRCWAGSLWLFKDPKAAAPNEG FCSAGVQTEAGVADLTWVGERGILVASDSGAVELWELDENETLIVSKFCKYEHDDIVSTVSVLSSGTQAVSGS KDICKVWDLAQVVLSSYRAHAAQVTCVAASPHKDSVFLSCSEDNRILLWDRCPKPKASQIGCSAPGYLPTS LAWHPQQSEVVFVGDENGTVSLVDTKSTCVLSSAVHSQCVTGLVFSVPHSVPFSLASLSEDCSLAVLDSSSEL FRSQAHRDFVRDATWSPLNHSL
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

Non-catalytic component of the 20S PRMT5-containing methyltransferase complex, which modifies specific arginines to dimethylarginines in several spliceosomal Sm proteins and histones. This modification targets Sm proteins to the survival of motor neurons (SMN) complex for assembly into small nuclear ribonucleoprotein core particles. Might play a role in transcription regulation. The 20S PRMT5-containing methyltransferase complex also methylates the Piwi proteins (PIWIL1, PIWIL2 and PIWIL4), methylation of Piwi proteins being required for the interaction with Tudor domain-containing proteins and subsequent localization to the meiotic nuage.

References

A novel WD repeat protein component of the methylosome binds Sm proteins.Friesen W.J., Wyce A., Paushkin S., Abel L., Rappsilber J., Mann M., Dreyfuss G.J. Biol. Chem. 277:8243-8247(2002)Research Topic:Epigenetics and Nuclear Signaling

Note: This product is for in vitro research use only