Datasheet for ABIN3089024

PRMT7 Protein (AA 1-692) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PRMT7
Protein Characteristics:	AA 1-692
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRMT7 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MKIFCSRANP TTGSVEWLEE DEHYDYHQEI ARSSYADMLH DKDRNVKYYQ GIRAAVSRVK DRGQKALVLD IGTGTGLLSM MAVTAGADFC YAIEVFKPMA DAAVKIVEKN GFSDKIKVIN KHSTEVTVGP EGDMPCRANI LVTELFDTEL IGEGALPSYE HAHRHLVEEN CEAVPHRATV YAQLVESGRM WSWNKLFPIH VQTSLGEQVI VPPVDVESCP GAPSVCDIQL NQVSPADFTV LSDVLPMFSI DFSKQVSSSA ACHSRRFEPL TSGRAQVVLS WWDIEMDPEG KIKCTMAPFW AHSDPEEMQW RDHWMQCVYF LPQEEPVVQG SALYLVAHHD DYCVWYSLQR TSPEKNERVR QMRPVCDCQA HLLWNRPRFG EINDQDRTDR YVQALRTVLK PDSVCLCVSD GSLLSVLAHH LGVEQVFTVE SSAASHKLLR KIFKANHLED KINIIEKRPE LLTNEDLQGR KVSLLLGEPF FTTSLLPWHN LYFWYVRTAV DQHLGPGAMV MPQAASLHAV VVEFRDLWRI RSPCGDCEGF DVHIMDDMIK RALDFRESRE AEPHPLWEYP CRSLSEPWQI LTFDFQQPVP LQPLCAEGTV ELRRPGQSHA AVLWMEYHLT PECTLSTGLL EPADPEGGCC WNPHCKQAVY FFSPAPDPRA

	LLGGPRTVSY AVEFHPDTGD IIMEFRHADT PD **Sequence without tag. The proposed Strep-Tag is based on experience s with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**
Characteristics:	Key Benefits: • Made in Germany - from design to production - by highly experienced protein experts. • Protein expressed with ALiCE® and purified in one-step affinity chromatography • These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed). • State-of-the-art algorithm used for plasmid design (Gene synthesis). This protein is a **made-to-order protein** and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein. The big advantage of ordering our **made-to-order proteins** in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified. Expression System: • ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. • During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein! Concentration: • The concentration of our recombinant proteins is measured using the absorbance at 280nm. • The protein's absorbance will be measured against its specific reference buffer. • We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.
Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).

Product Details

Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	PRMT7
Alternative Name:	PRMT7 (PRMT7 Products)
Background:	Protein arginine N-methyltransferase 7 (EC 2.1.1.321) (Histone-arginine N-methyltransferase PRMT7) ([Myelin basic protein]-arginine N-methyltransferase PRMT7),FUNCTION: Arginine methyltransferase that can both catalyze the formation of omega-N monomethylarginine (MMA) and symmetrical dimethylarginine (sDMA), with a preference for the formation of MMA. Specifically mediates the symmetrical dimethylation of arginine residues in the small nuclear ribonucleoproteins Sm D1 (SNRPD1) and Sm D3 (SNRPD3), such methylation being required for the assembly and biogenesis of snRNP core particles. Specifically mediates the symmetric dimethylation of histone H4 'Arg-3' to form H4R3me2s. Plays a role in gene imprinting by being recruited by CTCFL at the H19 imprinted control region (ICR) and methylating histone H4 to form H4R3me2s, possibly leading to recruit DNA methyltransferases at these sites. May also play a role in embryonic stem cell (ESC) pluripotency. Also able to mediate the arginine methylation of histone H2A and myelin basic protein (MBP) in vitro, the relevance of such results is however unclear in vivo. {ECO:0000269|PubMed:15044439, ECO:0000269|PubMed:15494416, ECO:0000269|PubMed:17709427, ECO:0000269|PubMed:19110445}.
Molecular Weight:	78.5 kDa
UniProt:	Q9NVM4
Pathways:	Ribonucleoprotein Complex Subunit Organization

Application Details

Application Notes:	In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational

Application Details

	modifications. During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months