Datasheet for ABIN3092302

EHMT1 Protein (AA 1-1298) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	EHMT1
Protein Characteristics:	AA 1-1298
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHMT1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAAADAEAVP ARGEPQQDCC VKTELLGEET PMAADEGSAE KQAGEAHMAA DGETNGSCEN SDASSHANAA KHTQDSARVN PQDGTNTLTR IAENGVSERD SEAAKQNHVT ADDFVQTSVI GSNGYILNKP ALQAQPLRTT STLASSLPGH AAKTLPGGAG KGRTPSAFPQ TPAAPPATLG EGSADTEDRK LPAPGADVKV HRARKTMPKS VVGLHAASKD PREVREARDH KEPKEEINKN ISDFGRQQLL PPFPSLHQSL PQNQCYMATT KSQTACLPFV LAAAVSRKKK RRMGTYSLVP KKKTKVLKQR TVIEMFKSIT HSTVGSKGEK DLGASSLHVN GESLEMDSDE DDSEELEEDD GHGAEQAAAF PTEDSRTSKE SMSEADRAQK MDGESEEEQE SVDTGEEEEG GDESDLSSES SIKKKFLKRK GKTDSPWIKP ARKRRRRSRK KPSGALGSES YKSSAGSAEQ TAPGDSTGYM EVSLDSLDLR VKGILSSQAE GLANGPDVLE TDGLQEVPLC SCRMETPKSR EITTLANNQC MATESVDHEL GRCTNSVVKY ELMRPSNKAP LLVLCEDHRG RMVKHQCCPG CGYFCTAGNF MECQPESSIS HRFHKDCASR VNNASYCPHC GEESSKAKEV TIAKADTTST VTPVPGQEKG

SALEGRADTT TGSAAGPPLS EDDKLQGAAS HVPEGFDPTG PAGLGRPTPG LSQGPGKETL ESALIALDSE KPKKLRFHPK QLYFSARQGE LQKVLLMLVD GIDPNFKMEH QNKRSPLHAA AEAGHVDICH MLVQAGANID TCSEDQRTPL MEAAENNHLE AVKYLIKAGA LVDPKDAEGS TCLHLAAKKG HYEVVQYLLS NGQMDVNCQD DGGWTPMIWA TEYKHVDLVK LLLSKGSDIN IRDNEENICL HWAAFSGCVD IAEILLAAKC DLHAVNIHGD SPLHIAAREN RYDCVVLFLS RDSDVTLKNK EGETPLQCAS LNSQVWSALQ MSKALQDSAP DRPSPVERIV SRDIARGYER IPIPCVNAVD SEPCPSNYKY VSQNCVTSPM NIDRNITHLQ YCVCIDDCSS SNCMCGQLSM RCWYDKDGRL LPEFNMAEPP LIFECNHACS CWRNCRNRVV QNGLRARLQL YRTRDMGWGV RSLQDIPPGT FVCEYVGELI SDSEADVREE DSYLFDLDNK DGEVYCIDAR FYGNVSRFIN HHCEPNLVPV RVFMAHQDLR FPRIAFFSTR LIEAGEQLGF DYGERFWDIK GKLFSCRCGS PKCRHSSAAL AQRQASAAQE AQEDGLPDTS SAAAADPL

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 -

Product Details

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

Target Details

Target:	EHMT1
Alternative Name:	EHMT1 (EHMT1 Products)
Background:	Histone-lysine N-methyltransferase EHMT1 (EC 2.1.1.-) (EC 2.1.1.367) (Euchromatic histone-lysine N-methyltransferase 1) (Eu-HMTase1) (G9a-like protein 1) (GLP) (GLP1) (Histone H3-K9 methyltransferase 5) (H3-K9-HMTase 5) (Lysine N-methyltransferase 1D),FUNCTION: Histone methyltransferase that specifically mono- and dimethylates 'Lys-9' of histone H3 (H3K9me1 and H3K9me2, respectively) in euchromatin. H3K9me represents a specific tag for epigenetic transcriptional repression by recruiting HP1 proteins to methylated histones. Also weakly methylates 'Lys-27' of histone H3 (H3K27me). Also required for DNA methylation, the histone methyltransferase activity is not required for DNA methylation, suggesting that these 2 activities function independently. Probably targeted to histone H3 by different DNA-binding proteins like E2F6, MGA, MAX and/or DP1. During G0 phase, it probably contributes to silencing of MYC- and E2F-responsive genes, suggesting a role in G0/G1 transition in cell cycle. In addition to the histone methyltransferase activity, also methylates non-histone proteins: mediates dimethylation of 'Lys-373' of p53/TP53. Represses the expression of mitochondrial function-related genes, perhaps by occupying their promoter regions, working in concert with probable chromatin reader BAZ2B (By similarity). {ECO:0000250|UniProtKB:Q5DW34, ECO:0000269|PubMed:12004135, ECO:0000269|PubMed:20118233}.
Molecular Weight:	141.5 kDa
UniProt:	Q9H9B1

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 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