

Datasheet for ABIN3135188

EHMT1 Protein (AA 1-1296) (His tag)[Go to Product page](#)**1** Image

Overview

Quantity:	1 mg
Target:	EHMT1
Protein Characteristics:	AA 1-1296
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHMT1 protein is labelled with His tag.
Application:	ELISA, Western Blotting (WB), Crystallization (Crys), SDS-PAGE (SDS)

Product Details

Sequence:	MAAADAEQAV LAKQETKQDC CMKTELLRED TPMAADEGST EKQEGETPMA ADGETNGSCE KSGDPSHLNA PKHTQENTRA SPQEGTNRVS RVAENGVSER DTEVGKQNHV TADDFMQTSV IGSNGYFLNK PALQGQPLRT PNILTSSLPG HAAKTLPGGA SKCRTLSALP QTPTTAPTVP GEGSADTEDR KPTASGTDVR VHRARKTMPK SILGLHAASK DHREVQDHKE PKEDINRNIS ECGRQQLLPT FPAHQSLPQ NQCYMATTKS QTACLPFVLA AAVSRKKKRR MGTYSLVPKK KTKVLKQRTV IEMFKSITHS TVGAKGEKAL DDSALHVNGE SLEMDSEDED SDELEDDH GAEQAAAFPT EDSRTSKESM SETDRAAKMD GDSEEEQESP DTGEDEDGGD ESDLSSSESI KKKFLKRRGK TDSPWIKPAR KRRRRSRKKP SSMLGSEACK SSPGSMEQAA LGDSAGYMEV SLDSLRLVR GILSSQTENE GLASGPDVLG TDGLQEVPLC SCRMPKSR EISTLANNQC MATESVDHEL GRCTNSVVKY ELMRPSNAP LVLCEHRG RMVKHQCCPG CGYFCTAGNF MECQPESSIS HRFHKDCASR VNNASYCPHC GEEASKAKEV TIAKADTTST VTLAPGQEK LAAEGRADTT TGSAGAPED ERSQSTAPQA PECFDPAGPA GLVRPTSGLS QGPGKETLES
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ALIALDSEKP KKLRFHPKQL YFSARQGELQ KVLLMLVDGI DPNFKMEHQS KRSPLHAAAE
AGHVDICHML VQAGANIDTC SEDQRTPLME AAENNHLDV KYLIKAGAV DPKDAEGSTC
LHLAAKKGHY DVVQYLLSNG QMDVNCQDDG GWTPMIWATE YKHVELVKLL LSKGSDINIR
DNEENICLHW AAFSGCVDIA EILAAKCDL HAVNIHGDSP LHIAARENRY DCVVLFLSRD
SDVTLKNKEG ETPLQCASLS SQVWSALQMS KALRDSAPDK PVAVEKTVSR DIARGYERIP
IPCVNAVDS LCPTNYKYVS QNCVTSPMNI DRNITHLQYC VCVDCCSSST CMCGQLSMRC
WYDKDGRLLP EFNMAEPPLI FECNHACSCW RNCNRVQVQN GLRARLQLYR TQDMGWGVRS
LQDIPLGTFV CEYVGELISD SEADVREEDS YLFDLDNKDG EVYCIDARFY GNVSRFINHH
CEPNLVPVRV FMSHQDLRFP RIAFFSTRLI QAGEQLGFDY GERFWDVKGK LFSCRCGSSK
CRHSSAALQ RQASAAQEPQ ENGLPDTSSA AAADPL

Sequence without tag. Tag location is at the discretion of the manufacturer. If you have a special request, please contact us.

Characteristics:

- Made in Germany - from design to production - by highly experienced protein experts.
- Mouse Ehmt1 Protein (raised in Insect Cells) purified by multi-step, protein-specific process to ensure crystallization grade.
- 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 will ensure that you receive a correctly folded 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.

In the unlikely event that the protein cannot be expressed or purified we do not charge anything (other companies might charge you for any performed steps in the expression process for custom-made proteins, e.g. fees might apply for the expression plasmid, the first expression experiments or purification optimization).

When you order this made-to-order protein you will only pay upon receipt of the correctly folded protein. With no financial risk on your end you can rest assured that our experienced protein experts will do everything to make sure that you receive the protein you ordered.

The concentration of our recombinant proteins is measured using the absorbance at 280nm.

The protein's absorbance will be measured in several dilutions and is measured against its specific reference buffer.

The concentration of the protein is calculated using its specific absorption coefficient. We use the Expasy's protparam tool to determine the absorption coefficient of each protein.

Purification:

Two step purification of proteins expressed in baculovirus infected SF9 insect cells:

1. In a first purification step, the protein is purified from the cleared cell lysate using three

Product Details

- different His-tag capture materials: high yield, EDTA resistant, or DTT resistant. Eluate fractions are analyzed by SDS-PAGE.
2. Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot.

Purity:	>95 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Sterility:	0.22 µm filtered
Endotoxin Level:	Protein is endotoxin free.
Grade:	Crystallography grade

Target Details

Target:	EHMT1
Alternative Name:	Ehmt1 (EHMT1 Products)
Background:	<p>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. {ECO:0000269 PubMed:15774718, ECO:0000269 PubMed:18818694}.</p>
Molecular Weight:	143.0 kDa Including tag.
UniProt:	Q5DW34

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:	Protein has not been tested for activity yet. In cases in which it is highly likely that the

Application Details

recombinant protein with the default tag will be insoluble our protein lab may suggest a higher molecular weight tag (e.g. GST-tag) instead to increase solubility. We will discuss all possible options with you in detail to assure that you receive your protein of interest.

Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	100 mM NaCL, 20 mM Hepes, 10% glycerol. pH value is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	Unlimited (if stored properly)

Images



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process