

Datasheet for ABIN7563813

EHMT1 Protein (AA 1-1296) (His tag)



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Overview

Quantity:	1 mg
Target:	EHMT1
Protein Characteristics:	AA 1-1296
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This EHMT1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ehmt1 Protein expressed in mammalian cells.
Sequence:	<p>MAAADAEQAV LAKQETKQDC CMKTELLRED TPMAADEGST EKQEGETPMA ADGETNGSCE</p> <p>KSGDPSHLNA PKHTQENTRA SPQEGTNRVS RVAENGVSER DTEVGKQNHV TADDFMQTSV</p> <p>IGSNGYFLNK PALQGQPLRT PNILTSSLPG HAAKTLPGGA SKCRTLSALP QTPTTAPTVP</p> <p>GEGSADTEDR KPTASGTDVR VHRARKTMPK SILGLHAASK DHREVQDHKE PKEDINRNIS</p> <p>ECGRQQLLPT FPALHQSLPQ NQCYMATTKS QTACLPFVLA AAVSRKKKRR MGTYSLVPPK</p> <p>KTKVLKQRTV IEMFKSITHS TVGAKGEKAL DDSALHVNGE SLEMDSEDED SDELEDDDEDH</p> <p>GAEQAAAFPT EDSRTSKESM SETDRAAKMD GDSEEEQESP DTGEDEDGGD ESDLSSSESI</p> <p>KKKFLKRRGK TDSPWIKPAR KRRRRSRKKP SSMLGSEACK SSPGSMEQAA LGDSAGYMEV</p> <p>SLDSLRLVR GILSSQTENE GLASGPDVLG TDGLQEVPLC SCRMPKSR EISTLANNQC</p> <p>MATESVDHEL GRCTNSVVKY ELMRPSNKAP LLVLCEDHRG RMVKHQCCPG CGYFCTAGNF</p> <p>MECQPESSIS HRFHKDCASR VNNASYCPHC GEEASKAKEV TIAKADTTST VTLAPGQEKs</p>

LAAEGRADTT TGSAGAPED ERSQSTAPQA PECFDPAGPA GLVRPTSGLS QGPGKETLES
ALIALDSEKP KKLRFHPKQL YFSARQGELQ KVLLMLVDGI DPNFKMEHQS KRSPLHAAAE
AGHVDICHML VQAGANIDTC SEDQRTPLME AAENNHLDV KYLIKAGAV DPKDAEGSTC
LHLAAKKGHY DVVQYLLSNG QMDVNCQDDG GWTPMIWATE YKHVELVKLL LSKGSDINIR
DNEENICLHW AAFSGCVDIA EILLAACDL HAVNIHGDSP LHIAARENRY DCVVLFLSRD
SDVTLKNKEG ETPLQCASLS SQVWSALQMS KALRDSAPDK PVAVEKTVSR DIARGYERIP
IPCNAVDSE LCPTNYKYVS QNCVTSPMNI DRNITHLQYC VCVDDCSSST CMCGQLSMRC
WYDKDGRLLP EFNMAEPPLI FECNHACSCW RNCNRVQV GLRARLQLYR TQDMGWGVRS
LQDIPLGTFV CEYVGELISD SEADVREEDS YLFDLDNKDG EYVICIDARFY GNVSRFINHH
CEPNLVPVRV FMSHQDLRFP RIAFFSTRLI QAGEQLGFDY GERFWDVKGK LFSCRCGSSK
CRHSSAALQ RQASAAQEPQ ENGLPDTSSA AAADPL **Sequence without tag. The proposed Purification-Tag is based on experiences 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:	<p>Key Benefits:</p> <ul style="list-style-type: none">• Made to order protein - from design to production - by highly experienced protein experts.• Protein expressed in mammalian cells and purified in one-step affinity chromatography• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.• State-of-the-art algorithm used for plasmid design (Gene synthesis). <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
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Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	EHMT1
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Target Details

Alternative Name:	Ehmt1 (EHMT1 Products)
Background:	<p>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) (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 (PubMed:32103178). {ECO:0000269 PubMed:15774718, ECO:0000269 PubMed:18818694, ECO:0000269 PubMed:32103178}.</p>
Molecular Weight:	142.0 kDa
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.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.

Handling

Expiry Date: 12 months