Datasheet for ABIN7549332
METTL13 Protein (AA 1-699) (His tag)

Overview

Quantity:	1 mg
Target:	METTL13
Protein Characteristics:	AA 1-699
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This METTL13 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant METTL13 Protein expressed in mammalian cells.
Sequence:	MNLLPKSSRE FGSVDYWEKF FQQRGKKAFE WYGTYLELCG VLHKYIKPRE KVLVIGCGNS ELSEQLYDVG YRDIVNIDIS EVVIKQMKEC NATRRPQMSF LKMDMTQMEF PDASFQVVLD KGTLDAVLTD EEEKTLQQVD RMLAEVGRVL QVGGRYLCIS LAQAHILKKA VGHFSREGWM VRVHQVANSQ DQVLEAEPQF SLPVFAFIMT KFRPVPGSAL QIFELCAQEQ RKPVRLESAE RLAEAVQERQ QYAWLCSQLR RKARLGSVSL DLCDGDTGEP RYTLHVVDSP TVKPSRDNHF AIFIIPQGRE TEWLFGMDEG RKQLAASAGF RRLITVALHR GQQYESMDHI QAELSARVME LAPAGMPTQQ QVPFLSVGGD IGVRTVQHQD CSPLSGDYVI EDVQGDDKRY FRRLIFLSNR NVVQSEARLL KDVSHKAQKK RKKDRKKQRP ADAEDLPAAP GQSIDKSYLC CEHHKAMIAG LALLRNPELL LEIPLALLVV GLGGGSLPLF VHDHFPKSCI DAVEIDPSML EVATQWFGFS QSDRMKVHIA DGLDYIASLA GGGEARPCYD VIMFDVDSKD PTLGMSCPPP AFVEQSFLQK VKSILTPEGV FILNLVCRDL GLKDSVLAGL KAVFPLLYVR RIEGEVNEIL FCQLHPEQKL ATPELLETAQ ALERTLRKPG RGWDDTYVLS DMLKTVKIV **Sequence without tag. The proposed**

Product Details

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.

Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: • 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). 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. If you are not interested in a full length protein, please contact us for individual protein fragments. 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.
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	METTL13
Alternative Name:	METTL13 (METTL13 Products)
Background:	EEF1A lysine and N-terminal methyltransferase (eEF1A-KNMT) (Methyltransferase-like protein 13) [Includes: eEF1A lysine methyltransferase (EC 2.1.1.-), eEF1A N-terminal methyltransferase (EC 2.1.1.-)],FUNCTION: Dual methyltransferase that catalyzes methylation of elongation factor 1-alpha (EEF1A1 and EEF1A2) at two different positions, and is therefore involved in the regulation of mRNA translation (PubMed:30612740, PubMed:30143613). Via its C-terminus, methylates EEF1A1 and EEF1A2 at the N-terminal residue 'Gly-2' (PubMed:30143613). Via its N-terminus dimethylates EEF1A1 and EEF1A2 at residue 'Lys-55' (PubMed:30612740, PubMed:30143613). Has no activity towards core histones H2A, H2B, H3 and H4

Target Details

	(PubMed:30612740). Negatively regulates cell proliferation at G1/S transition via transcriptional suppression of cell cycle regulatory genes such as CDK4 and CDK6 (PubMed:26763933). {ECO:0000269|PubMed:26763933, ECO:0000269|PubMed:30143613, ECO:0000269|PubMed:30612740}.
Molecular Weight:	78.8 kDa
UniProt:	Q8N6R0

Application Details

Application Notes:	We expect the protein to work for functional studies. 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.
Expiry Date:	12 months