

Datasheet for ABIN7555006
ZMYND8 Protein (AA 1-1186) (His tag)



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Overview

Quantity:	1 mg
Target:	ZMYND8
Protein Characteristics:	AA 1-1186
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This ZMYND8 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant ZMYND8 Protein expressed in mammalian cells.
Sequence:	MDISTRKDP GSAERTAQKR KFSPPHSSN GHSPQDTSTS PIKKKKK PGL LNSNNKEQSE LRHGPFYYMK QPLTTDPVDV VPQDGRNDFY CWVCHREGQV LCCELCPRVY HAKCLRLTSE PEGDWFCPEC EKITVAECIE TQSKAMTMLT IEQLSYLLKF AIQKMKQPGT DAFQKPVPLE QHPDYAEYIF HPMDLCTLEK NAKKKMYGCT EAFLADAKWI LHNCIIYNGG NHKLTQIAKV VIKICEHEMN EIEVCPECYL AACQKRDNWF CEPCSNPHPL VWAKLKGFPF WPAKALRDKD GQVDARFFGQ HDRAWVPINN CYLMSKEIPF SVKKTKSIFN SAMQEMEVVY ENIRRKFGVF NYSFRTPYT PNSQYQMLLD PTNPSAGTAK IDKQEKVKLN FDMTASPKIL MSKPVLSGGT GRRISLSDMP RSPMSTNSSV HTGSDVEQDA EKKATSSHFS ASEESMDFLD KSTASPASTK TGQAGLSLGS PKPFSPQLSA PITTKTDKTS TTGSILNINL DRSKAEMDLK ELSSEVQQQS TPVPLISPKR QIRSRFQLNL DKTIESCKAQ LGINEISEDV YTAVEHSDSE DSEKSDSSDS EYISDDEQKS KNEPEDTEDK EGCQMDKEPS AVKKKPKPTN PVEIKEELKS TSPASEKADP GAVKDKASPE PEKDFSEKAK PSPHPIKDKL KGKDETDSPV VHLGLDSDSE SELVIDLGED

Product Details

HSGREGRKNK KEPKEPSPKQ DVVGKTPPST TVGSHSPPET PVLTRSSAQT SAAGATATTS
TSSTVTVTAP APAATGSPVK KQRPLLPKET APAVQRVWN SSSKFQTSSQ KWHMQKMQRQ
QQQQQQNQQ QPQSSQGTR YQTRQAVKAV QKKEITQSPS TSTITLVTST QSSPLVTSSG
SMSTLVSSVN ADLPIATASA DVAADIAYT SKMMDAIKGT MTEIYNDLSK NTTGSTIAEI
RRLRIEIEKL QWLHQQELSE MKHNLELTMA EMRQSLEQER DRLIAEVKKQ LELEKQQA
ETKKKQWCAN CKKEAIFYCC WNTSYCDYPC QQAHWPEHMK SCTQSATAPQ QEADAEVNTE
TLNKSSQGSS SSTQSAPSET ASASKEKETS AEKSKESGST LDLSGSRETP SSILLGSNQG
SDHSRSNKSS WSSSDEKRGs TRSDHNTSTS TKSLLPKESR LDTFWD **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.

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: ZMYND8

Alternative Name: ZMYND8 ([ZMYND8 Products](#))

Target Details

Background: MYND-type zinc finger-containing chromatin reader ZMYND8 (Cutaneous T-cell lymphoma-associated antigen se14-3) (CTCL-associated antigen se14-3) (Protein kinase C-binding protein 1) (Rack7) (Transcription coregulator ZMYND8) (Zinc finger MYND domain-containing protein 8),FUNCTION: Chromatin reader that recognizes dual histone modifications such as histone H3.1 dimethylated at 'Lys-36' and histone H4 acetylated at 'Lys-16' (H3.1K36me2-H4K16ac) and histone H3 methylated at 'Lys-4' and histone H4 acetylated at 'Lys-14' (H3K4me1-H3K14ac) (PubMed:26655721, PubMed:31965980, PubMed:36064715, PubMed:27477906). May act as a transcriptional corepressor for KDM5D by recognizing the dual histone signature H3K4me1-H3K14ac (PubMed:27477906). May also act as a transcriptional corepressor for KDM5C and EZH2 (PubMed:33323928). Recognizes acetylated histone H4 and recruits the NuRD chromatin remodeling complex to damaged chromatin for transcriptional repression and double-strand break repair by homologous recombination (PubMed:30134174, PubMed:25593309, PubMed:27732854). Also activates transcription elongation by RNA polymerase II through recruiting the P-TEFb complex to target promoters (PubMed:30134174, PubMed:26655721). Localizes to H3.1K36me2-H4K16ac marks at all-trans-retinoic acid (ATRA)-responsive genes and positively regulates their expression (PubMed:26655721). Promotes neuronal differentiation by associating with regulatory regions within the MAPT gene, to enhance transcription of a protein-coding MAPT isoform and suppress the non-coding MAPT213 isoform (PubMed:36064715, PubMed:35916866, PubMed:30134174). Suppresses breast cancer, and prostate cancer cell invasion and metastasis (PubMed:27477906, PubMed:31965980, PubMed:33323928). {ECO:0000269|PubMed:25593309, ECO:0000269|PubMed:26655721, ECO:0000269|PubMed:27477906, ECO:0000269|PubMed:27732854, ECO:0000269|PubMed:30134174, ECO:0000269|PubMed:31965980, ECO:0000269|PubMed:33323928, ECO:0000269|PubMed:35916866, ECO:0000269|PubMed:36064715}.

Molecular Weight: 131.7 kDa

UniProt: [Q9ULU4](#)

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