

Datasheet for ABIN3135207
Kdm6b Protein (AA 1-1641) (His tag)



[Go to Product page](#)

1 Image

Overview

Quantity:	1 mg
Target:	Kdm6b
Protein Characteristics:	AA 1-1641
Origin:	Mouse
Source:	Insect Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Kdm6b protein is labelled with His tag.
Application:	Crystallization (Crys), ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MHRAVDPPGA RSAREAFALG GLSCAGAWSS CPPHPPRSS WLPGGRCAS VGQPPLSAPL
 PPSHGSSSGH PNKPYAPGT PTPRPLHGKL ESLHGCVQAL LREPAQPGLW EQLGQLYESE
 HDSEEAVCCY HRALRYGGSF AELGPRIGRL QQAQLWNFHA GSCQHRAKVL PPLEQVWNLL
 HLEHKRNYGA KRGGPPVKRS AEPPVVQMP PAALSGPSGE EGLSPGGKRR RGCSSSEQAGL
 PPGLPLPPPP PPPPPPPPPP PPPPPPLPGL AISPPFQLTK PGLWNTLHGD AWGPERKGSA
 PPERQEQRHS MPHSYPYPAP AYSAHPPSHR LVPNTPLGPG PRPPGAESHG CLPATRPPGS
 DLRESRVQRS RMDSSVSPA STACVPYAPS RPPGLPGTSS SSSSSSSSNN TGLRGVEPSP
 GIPGADHYQN PALEISPHQA RLGPSAHSSR KPFLTAPAAT PHLSLPPGTP SSPPPPCPRL
 LRPPPPAWM KGSACRAARE DGEILGELFF GAEGPPRPPP PPLPHRDGFL GPPNPRFSVG
 TQDSHNPIP PTTTSSSSSS NSHSSSPTGP VPFPPPSYLA RSIDPLRPS SPTLSPQDPP
 LPPLTLALPP APPSSCHQNT SGSFRRSESP RPRVSFPKTP EVGQGPPPGP VSKAPQPVPP
 GVGELPARGP RLFDFPPTPL EDQFEPAEF KILPDGLANI MKMLDESIRK EEEQQQQEA

GVAPPPPLKE PFASLQPPFP SDTAPATTTA APTTATTTTT TTTTTTQEEE KKPPPALPPP
PPLAKFPPPP QPQPPPPPA SPASLLKSLA SVLEGQKYCY RGTGAAVSTR PGSVPATQYS
PSPASGATAP PPTSVAPSAQ GSPKPSVSSS SQFSTSGGPW AREHRAGEEP APGPVTPAQL
PPPLPLPPAR SESEVLEEIS RACETLVERV GRSAINPVDT ADPVDSGTEP QPPPAQAKEE
SGGVAVAAAG PGSGKRRQKE HRRHRRACRD SVGRRPREGR AKAKAKAPKE KSRRVLGNLD
LQSEEIQGRE KARPVGGVS KVKTPTAPAP PPAPAPAAQP TPPSAPVPGK KTREEAPGPP
GVSRADMLKL RSLSEGPPKE LKIRLIKVES GDKETFIASE VEERRLRMAD LTISHCAADV
MRASKNAKVK GKFRESYLSP AQSVPKINT EEKLPREKLN PPTPSIYLES KRDAFSPVLL
QFCTDPRNPI TVIRGLAGSL RLNLGLFSTK TLVEASGEHT VEVRTQVQQP SDENWDLTGT
RQIWPCSSR SHTTIAKYAQ YQASSFQESL QEERESEDEE SEEPDSTTGT SPSSAPDPKN
HHIIKFGTNI DLSDAKRWKP QLQELLKLP FMRVTSTGNM LSHVGHTILG MNTVQLYMKV
PGSRTPGHQE NNNFCSVNIN IGPGDCEWFA VHEHYWETIS AFCDRHGVDY LTGSWWPILD
DLYASNIPVY RFVQRPGDLV WINAGTVHWV QATGWCNNIA WNVGPLTAYQ YQLALERYEW
NEVKNVKSIV PMIHVSWNVA RTVKISDPDL FKMIKFLLQ SMKHCQVQRE SLVRAGKKIA
YQGRVKDEPA YYCNECDVEV FNILFVTSN GSRNTYLVHC EGCARRRSAG LQGVVLEQY
RTEELAQAYD AFTLAPASTS R

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 Kdm6b 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.

Product Details

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 Exspasy's protparam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in baculovirus infected SF9 insect cells: <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using three 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:	Kdm6b
Alternative Name:	Kdm6b (Kdm6b Products)
Background:	Histone demethylase that specifically demethylates 'Lys-27' of histone H3, thereby playing a central role in histone code. Demethylates trimethylated and dimethylated H3 'Lys-27'. Plays a central role in regulation of posterior development, by regulating HOX gene expression. Involved in inflammatory response by participating in macrophage differentiation in case of inflammation by regulating gene expression and macrophage differentiation. {ECO:0000269 PubMed:17825402}.
Molecular Weight:	177.3 kDa Including tag.
UniProt:	Q5NCY0
Pathways:	Warburg Effect

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
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Application Details

though.

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