

Datasheet for ABIN3136363

SETDB2 Protein (AA 1-713) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	SETDB2
Protein Characteristics:	AA 1-713
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETDB2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	<p>MEEKNGDAKT FWMELQDDGK VDLMEFECTQN VLHSLKQKIK DGSATNGDYV QAMNLVNEAT</p> <p>LSNTQTLEKG MFITYSNPEV NTHRSNHTPV TQSEQENKSS AVPSASCDNS CPKGCTIPSP</p> <p>GKKVFLPVKN KADNLVKKEA PLHISFHRHI CSRTCLMETP LSLKGENPLQ LPIRCHFQRR</p> <p>HAKTNSHSSA LHVNYKTPCG RNLRNMEEVF HYLLETECNF LFTDNFSFNT YVQLTRNHPK</p> <p>QNEVVSDVDI SNGVESVSIP FCNEIDNSKL PRFKYRNTVW PRIYHLNFSN MFSDSCDCSE</p> <p>GCIDIKKAC LQLTAKNAKA CPLSSDGECA GYKYKRLQRL IPTGIYECNL LCKCNKQMCQ</p> <p>NRVIQHGV RV RLQVFKSEKK GWGVRCLDDI DKGTFVCIYS GRLLRRATPE KTNIGENGRE</p> <p>QQHIVKNSFS KKRKLEVCS DCDACDSDPK AEDCPPKLSG DLKEPAVEMN HRNISRTQHH</p> <p>SVIRRTKSKT TVFHYSEKNM GFVCSDSAAP EDKNGFKPAQ EHVNSEARRA HEDLSSNPAG</p> <p>DSEDTQLTES DVIDITASRE DSAPAYRCKH ATIVDRKDTK QVLEVP GKKS QEEEP AASQS</p> <p>QQALCDEELP SERTKIPSAS LMQLSKESLF LLDASKEGNV GRFLNHSCCP NLWWQNVFVE</p>

THDRNFPLVA FFTNRYVKAR TELTWDYGYE AGATPAKEIL CQCGFNKCRK KLI

Sequence without tag. The proposed Strep-Tag is based on experience s 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:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- 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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from *Nicotiana tabacum* c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

Target Details

Target: SETDB2

Alternative Name: Setdb2 ([SETDB2 Products](#))

Background: Histone-lysine N-methyltransferase SETDB2 (EC 2.1.1.366) (SET domain bifurcated 2),FUNCTION: Histone methyltransferase involved in left-right axis specification in early development and mitosis. Specifically trimethylates 'Lys-9' of histone H3 (H3K9me3). H3K9me3 is a specific tag for epigenetic transcriptional repression that recruits HP1 (CBX1, CBX3 and/or CBX5) proteins to methylated histones. Contributes to H3K9me3 in both the interspersed repetitive elements and centromere-associated repeats. Plays a role in chromosome condensation and segregation during mitosis (By similarity). {ECO:0000250}.

Molecular Weight: 80.6 kDa

UniProt: [Q8C267](#)

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.

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Restrictions: For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months