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Datasheet for ABIN3095374

SETD5 Protein (AA 1-1442) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	SETD5
Protein Characteristics:	AA 1-1442
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This SETD5 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSIAIPLGVT TSDTSYSDMA AGSDPESVEA SPAVNEKSVY STHNYGTTQR HGCRGLPYAT
IIPRSDLNGL PSPVEERCGD SPNSEGETVP TWPCGLSQD GLLNCDKCR GMSRGKVIRL
HRRKQDNISG GDSSATESWD EELSPSTVLY TATQHTPTSI TLTVRRTKPK KRKKSPEKGR
AAPKTKKIKN SPSEANLDE NTTEGWENRI RLWTDQYEEA FTNQYSADVQ NALEQHLHSS
KEFVGKPTIL DTINKTELAC NNTVIGSQMQ LQLGRVTRVQ KHRKILRAAR DLALDTLIE
YRGKVMLRQQ FEVNGHFFKK PYPFVLFYSK FNGVEMCVDA RTFGNDARFI RRSCTPNAEV
RHMIADGMIH LCIYAVSAIT KDAEVTIAFD YEYSNCNYKV DCACHKGNRN CPIQKRNPN
TELPLPPPPP SLPTIGAETR RRRARRKELE MEQQNEASEE NNDQQSQEVP EKVTVSSDHE
EVDNPEEKPE EEKEEVIDDQ ENLAHSRRT RDRKVEAIMH AFENLEKRKK RRDQPLEQSN
SDVEITTTTS ETPVGEETKT EAPSEVSNS VSNVTIPSTP QSVGVNTRRS SQAGDIAAEK
LVPKPPPAKP SRPRPKSRIS RYRTSSAQLR KRQKQANAQQ AELSQAAL EE GGSNSLVTPT
EAGSLDSSGE NRPLTGDPT VVSITGSHVN RAASKYPKTK KYLVTEWLND KAEKQCEPVE

CPLRITTDPT VLATTLNMLP GLIHSPLECT TPKHYIRFGS PFIPERRRRP LLPDGTFFSSC
KKRWIKQALE EGMTQTSSVP QETRTRQHLQ SNENSSSSSI CKDNADLLSP LKKWKSRYLM
EQNVTKLLRP LSPVTPPPPN SGSKSPQLAT PGSSHPGEEE CRNGYSMLMFS PVTSLTTASR
CNTPLQFELC HRKDLDLAKV GYLDSNTNSC ADRPSLLNSG HSDLAPHPSL GPTSETGFPS
RSGDGHQTLV RNSDQAFRTE FNLMYAYSPL NAMPRADGLY RGSPLVGDRK PLHLDGGYCS
PAEGFSSRYE HGLMKDLSRG SLSPGGERAC EGVPSAPQNP PQRKKVSLLE YRKRKQEAKE
NSAGGGGDSA QSKSKSAGAG QGSSNSVSDT GAHGVQGSSA RTPSSPHKKF SPSHSSMSHL
EAVSPDSRG TSSSHCRPQE NISSRWMVPT SVERLREGGS IPKVLRSSVR VAQKGEPSPT
WESNITEKDS DPADGEGPET LSSALSKGAT VYSPSRYSYQ LLQCDSRTE SQSLLQSSS
PFRGHPTQSP GYSYRTTALR PGNPPSHGSS ESSLSTSYS SPAHPVSTDS LAPFTGTPGY
FSSQPHSGNS TGSNLPRRSC PSSAASPTLQ GPSDSPTSDS VSQSSTGTLS STSFPQNSRS
SLPSDLRTIS LPSAGQSAVY QASRVSAVSN SQHYPHRGSG GVHQYRLQLP QGSGVKTQTG LS

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 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.

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

Product Details

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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none">1. In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. 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:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)
Grade:	Crystallography grade

Target Details

Target:	SETD5
Alternative Name:	SETD5 (SETD5 Products)
Background:	Histone-lysine N-methyltransferase SETD5 (EC 2.1.1.359) (EC 2.1.1.367) (SET domain-containing protein 5),FUNCTION: Chromatin regulator required for brain development: acts as a regulator of RNA elongation rate, thereby regulating neural stem cell (NSC) proliferation and synaptic transmission. May act by mediating trimethylation of 'Lys-36' of histone H3 (H3K36me3), which is essential to allow on-time RNA elongation dynamics. Also monomethylates 'Lys-9' of histone H3 (H3K9me1) in vitro. The relevance of histone methyltransferase activity is however subject to discussion. {ECO:0000250 UniProtKB:Q5XJV7}.
Molecular Weight:	157.5 kDa
UniProt:	Q9C0A6

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.

Comment: 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!

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer. If you have a special request, please contact us.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: Unlimited (if stored properly)



Image 1. „Crystallography Grade“ protein due to multi-step, protein-specific purification process