Datasheet for ABIN3096287

UTY Protein (AA 1-1347) (Strep Tag)

1 Image

Go to Product page

Overview

Quantity:	1 mg
Target:	UTY
Protein Characteristics:	AA 1-1347
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UTY protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence:	MKSCAVSLTT AAVAFGDEAK KMAEGKASRE SEEESVSLTV EEREALGGMD SRLFGFVRLH EDGARTKTLL GKAVRCYESL ILKAEGKVES DFFCQLGHFN LLLEDYSKAL SAYQRYYSLQ ADYWKNAAFL YGLGLVYFYY NAFHWAIKAF QDVLYVDPSF CRAKEIHLRL GLMFKVNTDY KSSLKHFQLA LIDCNPCTLS NAEIQFHIAH LYETQRKYHS AKEAYEQLLQ TENLPAQVKA TVLQQLGWMH HNMDLVGDKA TKESYAIQYL QKSLEADPNS GQSWYFLGRC YSSIGKVQDA FISYRQSIDK SEASADTWCS IGVLYQQQNQ PMDALQAYIC AVQLDHGHAA AWMDLGTLYE SCNQPQDAIK CYLNAARSKR CSNTSTLAAR IKFLQNGSDN WNGGQSLSHH PVQQVYSLCL TPQKLQHLEQ LRANRDNLNP AQKHQLEQLE SQFVLMQQMR HKEVAQVRTT GIHNGAITDS SLPTNSVSNR QPHGALTRVS SVSQPGVRPA CVEKLLSSGA FSAGCIPCGT SKILGSTDTI LLGSNCIAGS ESNGNVPYLQ QNTHTLPHNH TDLNSSTEEP WRKQLSNSAQ GLHKSQSSCL SGPNEEQPLF STGSAQYHQA TSTGIKKANE HLTLPSNSVP QGDADSHLSC HTATSGGQQG IMFTKESKPS KNRSLVPETS RHTGDTSNGC ADVKGLSNHV HQLIADAVSS PNHGDSPNLL

IADNPQLSAL LIGKANGNVG TGTCDKVNNI HPAVHTKTDH SVASSPSSAI STATPSPKST EQRSINSVTS LNSPHSGLHT VNGEGLGKSQ SSTKVDLPLA SHRSTSQILP SMSVSICPSS TEVLKACRNP GKNGLSNSCI LLDKCPPPRP PTSPYPPLPK DKLNPPTPSI YLENKRDAFF PPLHQFCTNP KNPVTVIRGL AGALKLDLGL FSTKTLVEAN NEHMVEVRTQ LLQPADENWD PTGTKKIWRC ESNRSHTTIA KYAQYQASSF QESLREENEK RTQHKDHSDN ESTSSENSGR RRKGPFKTIK FGTNIDLSDN KKWKLQLHEL TKLPAFARVV SAGNLLTHVG HTILGMNTVQ LYMKVPGSRT PGHQENNNFC SVNINIGPGD CEWFVVPEDY WGVLNDFCEK NNLNFLMSSW WPNLEDLYEA NVPVYRFIQR PGDLVWINAG TVHWVQAVGW CNNIAWNVGP LTACQYKLAV ERYEWNKLKS VKSPVPMVHL SWNMARNIKV SDPKLFEMIK YCLLKILKQY QTLREALVAA GKEVIWHGRT NDEPAHYCSI CEVEVFNLLF VTNESNTQKT YIVHCHDCAR KTSKSLENFV VLEQYKMEDL IQVYDQFTLA LSLSSSS

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 components needed for protein production (amino acids, cofactors, etc.) are added to

Product Details

	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®): 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:	UTY
Alternative Name:	UTY (UTY Products)
Background:	Histone demethylase UTY (EC 1.14.11.68) (Ubiquitously-transcribed TPR protein on the Y chromosome) (Ubiquitously-transcribed Y chromosome tetratricopeptide repeat protein) ([histone H3]-trimethyl-L-lysine(27) demethylase UTY),FUNCTION: Male-specific histone demethylase that catalyzes trimethylated 'Lys-27' (H3K27me3) demethylation in histone H3. Has relatively low lysine demethylase activity. {ECO:0000269|PubMed:24798337}.
Molecular Weight:	149.5 kDa
UniProt:	O14607
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 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