

Datasheet for ABIN3124647 NUDT15 Protein (AA 1-170) (Strep Tag)



Overview

Quantity:	1 mg
Target:	NUDT15
Protein Characteristics:	AA 1-170
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NUDT15 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MAANAEPRRR PGVGVGVVVL SCEHPRCVLL GKRKGSFGAG SFQLPGGHLE FGETWEECAQ
	RETWEEAGLH LKNVCFASVV NSFVEKENYH YVTILMKGEV DMTHDSEPRN MEPEKNESWE
	WVPWEEFPPL DQLFWALRCL KEQGYDPFKE DLNHLEGYRG EHLERTTKTP
	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).

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3124647 | 02/25/2025 | Copyright antibodies-online. All rights reserved. • 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®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	NUDT15
Alternative Name:	Nudt15 (NUDT15 Products)
Background:	Nucleotide triphosphate diphosphatase NUDT15 (EC 3.6.1.9) (MutT homolog 2) (mMTH2)
	(Nucleoside diphosphate-linked moiety X motif 15) (Nudix motif 15) (Nucleoside diphosphate-

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	linked to another moiety X hydrolase 15) (Nudix hydrolase 15),FUNCTION: May catalyze the
	hydrolysis of nucleoside triphosphates including dGTP, dTTP, dCTP, their oxidized forms like 8-
	oxo-dGTP and the prodrug thiopurine derivatives 6-thio-dGTP and 6-thio-GTP
	(PubMed:12767940). Could also catalyze the hydrolysis of some nucleoside diphosphate
	derivatives (By similarity). Hydrolyzes oxidized nucleosides triphosphates like 8-oxo-dGTP in
	vitro, but the specificity and efficiency towards these substrates are low. Therefore, the
	potential in vivo sanitizing role of this enzyme, that would consist in removing oxidatively
	damaged forms of nucleosides to prevent their incorporation into DNA, is unclear
	(PubMed:12767940). Through the hydrolysis of thioguanosine triphosphates may participate ir
	the catabolism of thiopurine drugs (By similarity). May also have a role in DNA synthesis and
	cell cycle progression by stabilizing PCNA (By similarity). Exhibits decapping activity towards
	dpCoA-capped RNAs in vitro (PubMed:32432673). {ECO:0000250 UniProtKB:Q9NV35,
	ECO:0000269 PubMed:12767940, ECO:0000269 PubMed:32432673}.
Molecular Weight:	19.6 kDa
UniProt:	Q8BG93
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. 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