

Datasheet for ABIN3084111 ADI1 Protein (AA 1-179) (Strep Tag)



Overview Quantity: 1 mg ADI1 Target: Protein Characteristics: AA 1-179 Origin: Human Source: Tobacco (Nicotiana tabacum) Protein Type: Recombinant Purification tag / Conjugate: This ADI1 protein is labelled with Strep Tag. Application: ELISA, SDS-PAGE (SDS), Western Blotting (WB) Product Details Sequence: MVQAWYMDDA PGDPRQPHRP DPGRPVGLEQ LRRLGVLYWK LDADKYENDP ELEKIRRERN YSWMDIITIC KDKLPNYEEK IKMFYEEHLH LDDEIRYILD GSGYFDVRDK EDQWIRIFME KGDMVTLPAG IYHRFTVDEK NYTKAMRLFV GEPVWTAYNR PADHFEARGQ YVKFLAQTA 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).

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 ABIN3084111 | 10/08/2024 | Copyright antibodies-online. All rights reserved. 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:	> 80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Target Details	
Target:	ADI1
Alternative Name:	ADI1 (ADI1 Products)
Background:	Acireductone dioxygenase (Acireductone dioxygenase (Fe(2+)-requiring)) (ARD') (Fe-ARD) (EC 1 13 11 54) (Acireductone dioxygenase (Ni(2+)-requiring)) (ARD) (Ni-ARD) (EC 1 13 11 53)
	(Membrane-type 1 matrix metalloproteinase cytoplasmic tail-binding protein 1) (MTCBP-1)
	(Submergence-induced protein-like factor) (Sip-L),FUNCTION: Catalyzes 2 different reactions

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	between oxygen and the acireductone 1,2-dihydroxy-3-keto-5-methylthiopentene (DHK-
	MTPene) depending upon the metal bound in the active site (By similarity). Fe-containing
	acireductone dioxygenase (Fe-ARD) produces formate and 2-keto-4-methylthiobutyrate
	(KMTB), the alpha-ketoacid precursor of methionine in the methionine recycle pathway
	(PubMed:15938715). Ni-containing acireductone dioxygenase (Ni-ARD) produces
	methylthiopropionate, carbon monoxide and formate, and does not lie on the methionine
	recycle pathway (By similarity). Also down-regulates cell migration mediated by MMP14
	(PubMed:14718544). Necessary for hepatitis C virus replication in an otherwise non-permissive
	cell line (PubMed:11602742). {ECO:0000255 HAMAP-Rule:MF_03154,
	ECO:0000269 PubMed:11602742, ECO:0000269 PubMed:14718544,
	ECO:0000269 PubMed:15938715}.
Molecular Weight:	21.5 kDa
UniProt:	Q9BV57
Pathways:	Methionine Biosynthetic Process
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

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Handling

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)