

Datasheet for ABIN7560360
DDAH2 Protein (AA 1-285) (His tag)



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Overview

Quantity:	1 mg
Target:	DDAH2
Protein Characteristics:	AA 1-285
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This DDAH2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Purpose:	Custom-made recombinat Ddah2 Protein expressed in mammalien cells.
Sequence:	<p>MGTPGEGLGR CSHALIRGVP ESLASGEGAG AGLPALDLAK AQREHGVLLGG KLRQRLGLQL</p> <p>LLELPPEESLP LGPLLGD TAV IQGDTALITR PWSPARRPEV DGVRKALQDL GLRIVEMGDE</p> <p>NATLDGTDVL FTGREFFVGL SKWTNHRGAE IVADTFRDFA VSTVPVSGSS HLRGLCGMGG</p> <p>PRTVVAGSSE AAQKAVRAMA ALTDHPYASL TLPDDAASDC LFLRPGLPGA TPFLLRGGG</p> <p>DLPNSQEALQ KLSDVTLVPV SCSELEKAGA GLSSLCLVLS TRPHC Sequence without tag. The proposed Purification-Tag is based on experiences 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.</p>
Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"> Made to order protein - from design to production - by highly experienced protein experts.

Product Details

- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
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Grade:	custom-made
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Target Details

Target:	DDAH2
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Alternative Name:	Ddah2 (DDAH2 Products)
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Background:	<p>Putative hydrolase DDAH2 (EC 3.-.-) (DDAHII) (Inactive N(G),N(G)-dimethylarginine dimethylaminohydrolase 2) (DDAH-2) (Inactive dimethylarginine dimethylaminohydrolase 2),FUNCTION: Putative hydrolase with unknown substrate (Probable). Does not hydrolyze N(G),N(G)-dimethyl-L-arginine (ADMA) which acts as an inhibitor of NOS (PubMed:37296100, PubMed:21493890). In endothelial cells, induces expression of vascular endothelial growth factor (VEGF) via phosphorylation of the transcription factor SP1 by PKA in a process that is independent of NO and NO synthase (PubMed:16574895). Similarly, enhances pancreatic insulin secretion through SP1-mediated transcriptional up-regulation of secretagoin/SCGN, an insulin vesicle docking protein (PubMed:23430976). Upon viral infection, relocates to mitochondria where it promotes mitochondrial fission through activation of DNM1L leading to the inhibition of innate response activation mediated by MAVS (PubMed:33850055).</p> <p>{ECO:0000269 PubMed:16574895, ECO:0000269 PubMed:21493890, ECO:0000269 PubMed:23430976, ECO:0000269 PubMed:33850055, ECO:0000269 PubMed:37296100, ECO:0000305 PubMed:21493890, ECO:0000305 PubMed:37296100}.</p>
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Target Details

Molecular Weight: 29.6 kDa

UniProt: [Q99LD8](#)

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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months