

Datasheet for ABIN7559843

## PRODH2 Protein (AA 1-456) (His tag)



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### Overview

Quantity:	1 mg
Target:	PRODH2
Protein Characteristics:	AA 1-456
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PRODH2 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Prodh2 Protein expressed in mammalian cells.
Sequence:	<p>MIWTRLPLYG PSKPSTGGWQ PLRFDGGAFH VKGTAE LARA LLVLR LCAWP PLVTHGLAFQ</p> <p>AWSQRLLGSR LSGALLRASI YGQFVAGETA EEVRNCVGQL QALGLQPLLA VPTEEEP DST</p> <p>AKTSEVWYEE NLSAMLR CVD LSRALVDAHG PARNSLMQLK VTALASTRLC KELSAWIQRP</p> <p>RGSSSELSPER LAEAMD SGRN LQLSCLSTEQ NQHLQASLSR LHRVAQHARA KCVRL LVDAE</p> <p>YTFINPALS LVAALAVRW N SPEEGGPWWV NTYQAYLKDT HQRLEQDAEA AHKAGLAFGV</p> <p>KLVRGAYLDK ERSMTQLQ GK EDCTQPDYEA TSRSYSRCLE LMLRCVSNHG PPCHLMVASH</p> <p>NEESVRQATK RMWELGIPLD GPVCFGQLLG MCDHVSLALG QAGYMVYKSI PYGCLEEVIP</p> <p>YLIRRAQENR SVLQGARREQ ALLSQELWRR LLGRTA <b>Sequence without tag. The proposed</b></p> <p><b>Purification-Tag is based on experiences with the expression system, a different complexity</b></p> <p><b>of the protein could make another tag necessary. In case you have a special request, please</b></p> <p><b>contact us.</b></p>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different

## Product Details

isoform, please contact us regarding an individual offer.

### Characteristics:

#### Key Benefits:

- Made to order protein - from design to production - by highly experienced protein experts.
- 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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)

### Grade:

custom-made

## Target Details

### Target:

PRODH2

### Alternative Name:

Prodh2 ([PRODH2 Products](#))

### Background:

Hydroxyproline dehydrogenase (HYPDH) (EC 1.5.5.3) (Kidney and liver proline oxidase 1) (MmPOX1) (Probable proline dehydrogenase 2) (EC 1.5.5.2) (Probable proline oxidase 2) (Proline oxidase-like protein) (PO) (Proline oxidase),FUNCTION: Dehydrogenase that converts trans-4-L-hydroxyproline to delta-1-pyrroline-3-hydroxy-5-carboxylate (Hyp) using ubiquinone-10 as the terminal electron acceptor. Can also use proline as a substrate but with a very much lower efficiency. Does not react with other diastereomers of Hyp: trans-4-D-hydroxyproline and cis-4-L-hydroxyproline. Ubiquinone analogs such as menadione, duroquinone and ubiquinone-1 react more efficiently than oxygen as the terminal electron acceptor during catalysis. {ECO:0000250|UniProtKB:Q9UF12}.

### Molecular Weight:

50.7 kDa

### UniProt:

[Q8VCZ9](#)

## Application Details

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Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

## Handling

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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