

Product datasheet

Recombinant fdhA protein ab198463

[2 Images](#)

Description

Product name	Recombinant fdhA protein
Biological activity	Specific Activity: ≥ 35 $\mu\text{mol}/\text{min}/\mu\text{g}$ Assay Conditions: The reaction was monitored by measuring NADH production by following absorbance at 340nm at room temperature for 5min. Buffer: pH 7.3, 20 mM Tris, 50 mM NaCl, 20 μM Fe^{2+} , 500 mM α -ketoglutarate, 2 mM ascorbic acid, 0.01% Tween-20, and 1 mM NAD^+ .
Purity	> 74 % SDS-PAGE.
Expression system	Escherichia coli
Accession	<u>P46154</u>
Protein length	Full length protein
Animal free	No
Nature	Recombinant
Species	Bacteria
Sequence	MHHHHHSGNRGVVYLGSGKVEVQKIDYPKMQDPRGKKI EHGVILKVVST NICGSDQHMRGRTTAQVGLVLGHEITGEVIEKGRDVENL QIGDLVSVPF NVACGRCRSCHEMHTGVCLTVNPARAGGAYGYVDMGD WTGGQAEYLLVPY ADFNLLKLPDRDKAMEKIRDLTCLSDILPTGYHGAVTAGV GPGSTVYVAG AGPVGLAAAASARLLGAHVIVGDLNPARLAHAKAQGFEI ADLSLDTPLH EQIAALLGEPEVDCAVDAVGFEARGHGHEGAKHEAPATV LNSLMQVTRVA GKIGIPGLYVTEDPGAVDAAKIGSLSIRFGLGWAKSHSFH TGQTPVMKY NRALMQAIMWDRINIAEVVGVQVISLDDAPRGYGEFDAGV PKKFVIDPHK TFSAA
Predicted molecular weight	43 kDa including tags
Amino acids	2 to 399
Tags	His tag N-Terminus

Additional sequence information From *Pseudomonas putida*. Genbank: D21201

Specifications

Our **Abpromise guarantee** covers the use of **ab198463** in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Applications	SDS-PAGE Functional Studies
Form	Liquid
Additional notes	Useful for the study of enzyme kinetics, screening inhibitors, and selectivity profiling.

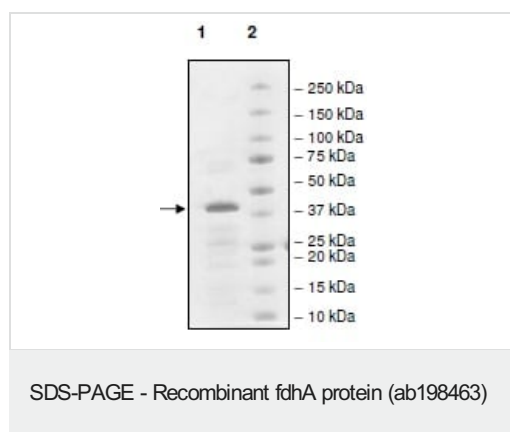
Preparation and Storage

Stability and Storage	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle. pH: 8.00 Preservative: 1.36% Imidazole Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 20% Glycerol (glycerin, glycerine) This product is an active protein and may elicit a biological response in vivo, handle with caution.
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General Info

Relevance	Catalyzes the NAD ⁺ -dependent oxidation of formaldehyde and acetaldehyde as well as long-chain alcohols but is inactive against propionaldehyde, butyraldehyde, methanol and ethanol. Can also catalyze the dismutation of a wide range of aldehydes such as formaldehyde.
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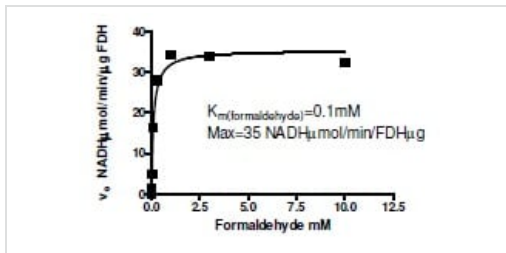
Images



4-20% SDS-PAGE analysis of ab198463 with Coomassie staining.

Lane 1: 2.88 µg ab198463

Lane 2: Protein marker



Kinetics of ab198463.

Functional Studies - Recombinant fdhA protein
(ab198463)

Please note: All products are "FOR RESEARCH USE ONLY. NOT FOR USE IN DIAGNOSTIC PROCEDURES"

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