

## Product datasheet

# Recombinant human COX1 / Cyclooxygenase 1 protein ab198643

[2 Images](#)

### Description

<b>Product name</b>	Recombinant human COX1 / Cyclooxygenase 1 protein
<b>Biological activity</b>	Mixed various concentrations of enzyme in Assay buffer (100 mM Tris-HCl pH 8, 3 µM EDTA) with 5 µM Hematin for 10 min then added 100 µM Ampliflu Red and 200 µM arachidonic acid. Fluorescence (ex. 535 em. 590) was measured after 5 minutes at room temperature. Reaction volume was 100 µl. Application: Useful for the study of enzyme kinetics, screening inhibitors and selectivity profiling.
<b>Purity</b>	>= 90 % SDS-PAGE. Affinity purified.
<b>Expression system</b>	Baculovirus infected Sf9 cells
<b>Accession</b>	<b><u>P23219</u></b>
<b>Protein length</b>	Full length protein
<b>Animal free</b>	No
<b>Nature</b>	Recombinant
<b>Species</b>	Human
<b>Sequence</b>	

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MSRSLLLWFLFLLLLPLPVLLADPGAPTPVNPCCYYPC
QHQCICVRFG
LDRYQCDCTRTGYSGPNCTIPGLWTWLRNSLRSPSFTHF
LLTHGRWFWE
FVNATFIREMLMRLVLTVRSNLIPSPPTYNSAHDYISWESF
SNVSYTRI
LPSVPKDCPTPMGKGGKQLPDAQLLARRFLLRRKFIPDP
QGTNLMFAFF
AQHFTHQFFKTSGKMGPFGTKALGHGVDLGHYGDNLER
QYQLRLFKDGK
LKYQVLDGEMYPPSVVEEAPVLMHYPRGIPPQSQMAVGQE
VFGLLPGLMLY
ATLWLREHNVRVCDLLKAEHPTWGDEQLFQTTRLILIGETIKI
VIEEYVQQ
LSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLM
PDSFKVGSQE
YSYEQFLFNTSMLVDYGVVEALVDAFSRQIAGRIGGGRNMD
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HHILHVAVDV  
IRESREMLQPFNEYRKRFGMKPYTSFQELVGEKEMAAE  
LEELYGDIDAL  
EFYPGLLLEKCHPNISIFGESMIEIGAPFSLKGLLGNPICSPE  
YWKPSTFG  
GEVGFNMKTATLKKLVCLNTKTCPIVVSFRVPDASQDDGP  
AVERPSTELD YKDDDDKHHHHHH

<b>Predicted molecular weight</b>	71 kDa including tags
<b>Amino acids</b>	1 to 599
<b>Tags</b>	His-DDDDK tag C-Terminus
<b>Additional sequence information</b>	NM_000962.

## Specifications

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Our **Abpromise guarantee** covers the use of **ab198643** in the following tested applications.

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

<b>Applications</b>	SDS-PAGE  Functional Studies
<b>Form</b>	Liquid
<b>Additional notes</b>	Abcam has not and does not intend to apply for the REACH Authorisation of customers' uses of products that contain European Authorisation list (Annex XIV) substances. It is the responsibility of our customers to check the necessity of application of REACH Authorisation, and any other relevant authorisations, for their intended uses.

## Preparation and Storage

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<b>Stability and Storage</b>	Shipped on Dry Ice. Store at -80°C. Avoid freeze / thaw cycle.  pH: 8.00 Constituents: 0.63% Tris HCl, 0.64% Sodium chloride, 0.02% Potassium chloride, 0.04% Tween, 20% Glycerol (glycerin, glycerine), 0.08% Triton X-100, 0.0067% Diethyldithiocarbamate  Contains 80 µg/ml DDDDK peptide.  This product is an active protein and may elicit a biological response in vivo, handle with caution.
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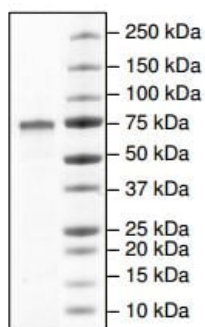
## General Info

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<b>Function</b>	May play an important role in regulating or promoting cell proliferation in some normal and neoplastically transformed cells.
<b>Pathway</b>	Lipid metabolism; prostaglandin biosynthesis.
<b>Sequence similarities</b>	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
<b>Cellular localization</b>	Microsome membrane. Endoplasmic reticulum membrane.

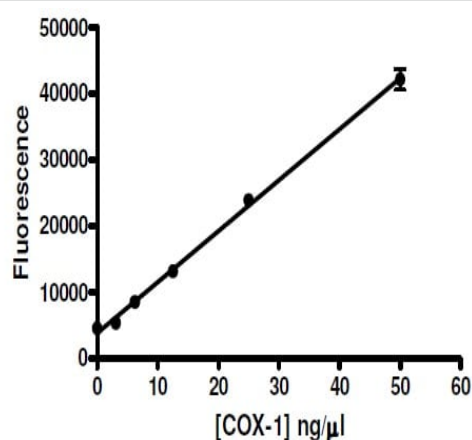
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## Images



SDS-PAGE - Recombinant human COX1 /  
Cyclooxygenase 1 protein (ab198643)

4-20% SDS-PAGE analysis of 1.2 µg ab198643 with Coomassie staining.



Functional Studies - Recombinant human COX1 /  
Cyclooxygenase 1 protein (ab198643)

Mixed various concentrations of enzyme in Assay buffer (100 mM Tris-HCl pH 8, 3 µM EDTA) with 5 µM Hematin for 10 min then added 100 µM Ampliflu Red and 200 µM arachidonic acid. Fluorescence (ex. 535 em. 590) was measured after 5 minutes at room temperature. Reaction volume was 100 µl.

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

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