

Product datasheet

Recombinant human COX2 / Cyclooxygenase 2 protein ab198646

2 Images

Description

Product name Recombinant human COX2 / Cyclooxygenase 2 protein

Purity > 90 % SDS-PAGE.

Expression system Baculovirus infected Sf9 cells

Accession [P35354](#)

Protein length Full length protein

Animal free No

Nature Recombinant

Species Human

Sequence

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MLARALLLCAVLALSHTANPCCSHPCQNRGVCMSVGF
DQYKCDCTRTRGFY
GENCSTPEFLTRIKLFLKPTPNTVHYLTHFKGFWNV
VNNIPFLRNAIMS
YVLTSRSHLIDSPPTYNADYGYKSWEAFSNLSYY
TRALPPVPDDCPTPLG
VKGKKQLPDSNEIVEKLLLRKFIPDPQGSNMMFA
FFAQHFTHQFFKTDH
KRGPAFTNGLGHGVDLNHIYGETLARQRKLR
LRFKDGKMKYQIIDGEMYPP
TVKDTQAEMYPPQVPEHLRFAVGQEVFGLVPGL
MMYATIWLREHNRVCD
VLKQEHPEWGDQLFQTSRLILIGETIKMIEDYV
QHLSGYHFKLKFDP
EQLFNKQFQYQNRIAAEFNTLYHWHPLLPD
TFQIHDQKYNYQQFYNNISIL
LEHGITQFVESFTRQIAGRVAGGRNVPPAVQK
VVSQASIDQSRQMKYQSFN
EYRKRFMLKPYESFEELTGEKEMSAELEALY
GDIDAVELYPALLVEKPRP
DAIFGETMVEVGAPFSLKGLMGNVICSPAYW
KWPSTFGGEVGFQIINTASI
QSLICNNVKGCPFTSFSVPDPELIKTVTINASS
SRSGLDDINPTVLLKERSTELDYKDDDDKHH
HHHHH

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Predicted molecular weight	71 kDa including tags
Amino acids	1 to 604
Tags	His-DDDDK tag C-Terminus
Additional sequence information	GenBank Accession No. NM_000963

Specifications

Our [Abpromise guarantee](#) covers the use of **ab198646** 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	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.

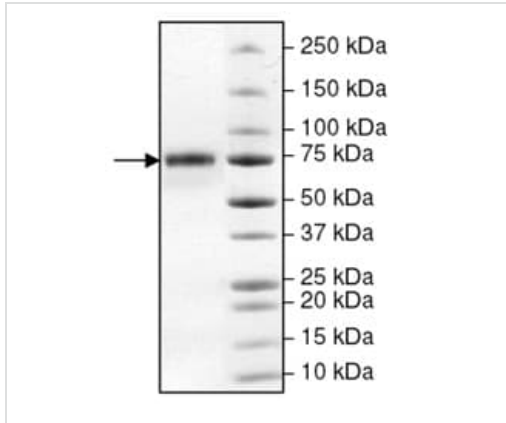
Preparation and Storage

Stability and Storage	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, 0.08% Triton-X-100, 0.01% 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

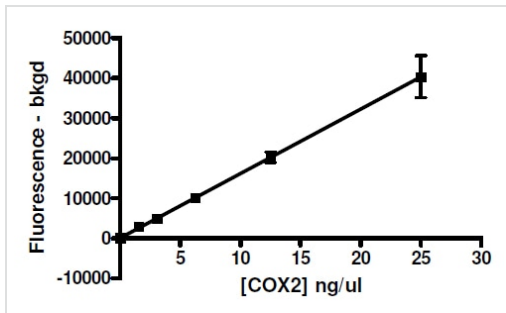
Function	Mediates the formation of prostaglandins from arachidonate. May have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.
Pathway	Lipid metabolism; prostaglandin biosynthesis.
Sequence similarities	Belongs to the prostaglandin G/H synthase family. Contains 1 EGF-like domain.
Post-translational modifications	S-nitrosylation by NOS2 (iNOS) activates enzyme activity. S-nitrosylation may take place on different Cys residues in addition to Cys-561.
Cellular localization	Microsome membrane. Endoplasmic reticulum membrane.

Images



4-20% SDS Page analysis of ab198646 (2 µg)

SDS-PAGE - Recombinant human COX2 /
Cyclooxygenase 2 protein (ab198646)



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 M 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.

Functional Studies - Recombinant human COX2 /
Cyclooxygenase 2 protein (ab198646)

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

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