



SZABO SCANDIC

Part of Europa Biosite

Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

mail@szabo-scandic.com

www.szabo-scandic.com

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

PRODUCT INFORMATION



COX-1 (human, recombinant)

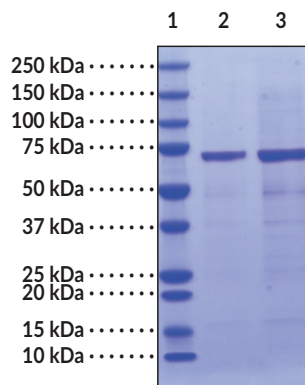
Item No. 17616

Overview and Properties

Synonyms:	Cyclooxygenase 1, PGHS-1, Prostaglandin Endoperoxide Synthase 1, Prostaglandin G/H Synthase 1, Prostaglandin H2 Synthase 1
Source:	Recombinant N-terminal His-tagged protein expressed using the baculovirus system
Amino Acids:	24-599 (full-length)
Uniprot No.:	P23219
Molecular Weight:	~70 kDa
Storage:	-80°C (as supplied); avoid freeze/thaw cycles by aliquoting protein
Stability:	≥1 year
Purity:	≥85% estimated by SDS-PAGE
Supplied in:	80 mM Tris, pH 8.0, with 0.01% polysorbate 20, 300 μM DDC, and 10% glycerol
Protein Concentration:	<i>batch specific</i> mg/ml
Activity:	<i>batch specific</i> U/ml
Specific Activity:	<i>batch specific</i> U/mg
Unit Definition:	One unit is defined as the amount of enzyme required to consume 1 nmol of oxygen per minute at 37°C in 100 mM Tris, pH 8.0, containing 100 μM arachidonate, 5 mM EDTA, 2 mM phenol, and 1 μM hematin.

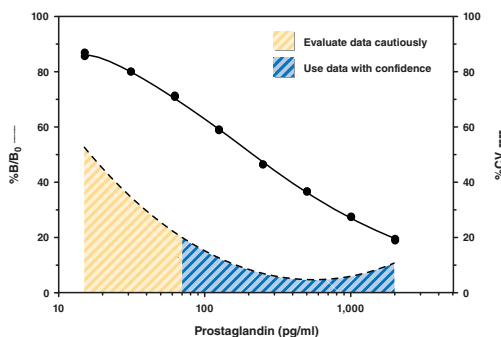
Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Image



Lane 1: MW Markers
Lane 2: COX-1 (2 μg)
Lane 3: COX-1 (4 μg)

Representative gel image shown; actual purity may vary between each batch.



Assay Range = 15.6-2,000 pg/ml
Sensitivity (defined as 80% B/B₀) = 29 pg/ml
Mid-point (defined as 50% B/B₀) = 125-250 pg/ml
The sensitivity and mid-point were derived from the standard curve shown above. The standard was diluted with ELISA Buffer.

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

WARRANTY AND LIMITATION OF REMEDY
Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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CAYMAN CHEMICAL
1180 EAST ELLSWORTH RD
ANN ARBOR, MI 48108 · USA
PHONE: [800] 364-9897
[734] 971-3335
FAX: [734] 971-3640
CUSTSERV@CAYMANCHEM.COM
WWW.CAYMANCHEM.COM

PRODUCT INFORMATION



Description

COX-1 and -2, also called prostaglandin endoperoxide H synthases-1 and -2, are key regulatory enzymes in the prostaglandin biosynthetic pathway. COX enzymes catalyze the committed step in the conversion of arachidonic acid (Item No. 90010) to prostaglandin H₂ (Item No. 17020). These enzymes are the major targets for NSAIDs that are used to reduce pain, inflammation, and fever.¹

Reference

1. Smith, W.L., DeWitt, D.L., and Garavito, R.M. Cyclooxygenases: Structural, cellular, and molecular biology. *Annu. Rev. Biochem.* **69**, 145-182 (2000).

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