

Native Sheep PTGS1 Protein

Cat. No. PTGS1-141S **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Native Sheep PTGS1 Protein was purified from ram seminal vesicles.
Species	Sheep
Source	Ram Seminal Vesicles
Description	This is one of two genes encoding similar enzymes that catalyze the conversion of arachidonate to prostaglandin. The encoded protein regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. Based on its ability to function as both a cyclooxygenase and as a peroxidase, the encoded protein has been identified as a moonlighting protein.
Molecular Mass	70 kDa
Unit Definition	One unit of enzyme consumes one nanomole of oxygen per minute at 37 centigrade in 0.1 M Tris-HCl buffer, pH 8.0, containing 100 µM arachidonate, 5 mM EDTA, and 2 mM phenol, and 1 µM hematin. The cyclooxygenase activity of COX-1 was measured at 37 centigrade by monitoring oxygen consumption using a Gilson Model 5/6 H oxygraph equipped with a Clark oxygen electrode.
Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	80 mM Tris-HCl, pH 8.0, containing 0.3 mM DDC, 0.1% polysorbate 20, and 10%

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glycerol

GENE INFORMATION

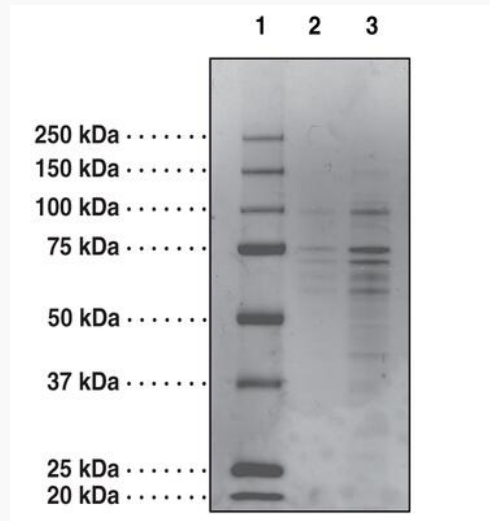
Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 [<i>Ovis aries</i> (sheep)]
Official Symbol	PTGS1
Synonyms	PTGS1; prostaglandin-endoperoxide synthase 1; COX1; COX-1; PGHS-1; prostaglandin G/H synthase 1; PGH synthase 1; PHS 1; cyclooxygenase-1; prostaglandin H2 synthase 1; prostaglandin endoperoxide synthase; EC 1.14.99.1
Gene ID	443551
mRNA Refseq	NM_001009476
Protein Refseq	NP_001009476
UniProt ID	P05979

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**SDS-PAGE analysis
of PTGS1**



Lane 1: MW Ladder
Lane 2: PTGS1 (2 µg)
Lane 3: PTGS1 (5 µg)