Native Sheep PTGS1 Protein

Cat. No. PTGS1-58S **Lot. No.** (See product label)

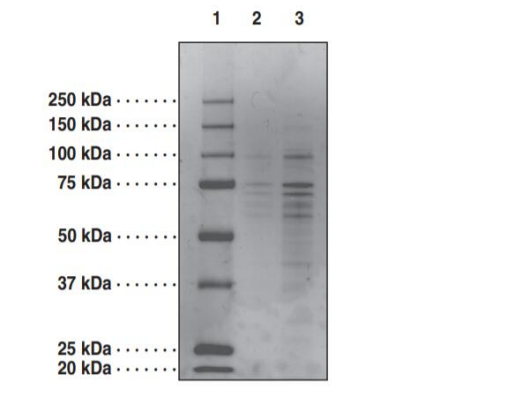
SPECIFICATION

Product Overview	Native sheep PTGS1 protein without tag was isolated 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 arachinodate 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 TrisHCl 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	Store it at -80 centigrade
Storage Buffer	80 mM Tris-HCl, pH 8.0, containing 0.3 mM DDC, 0.1% polysorbate 20, and 10%

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

	glycerol

GENE INFORMATION

Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 [Ovis aries (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
Gene ID	443551
mRNA Refseq	NM_001009476
Protein Refseq	NP_001009476
UniProt ID	P05979
SDS-PAGE Analysis of PTGS1	 Lane 1: MW Markers; Lane 2: COX1 (2 µg); Lane 3: COX1 (5 µg).

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA