Recombinant Human PTGS1 Protein, His-tagged

Cat. No. PTGS1-045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant N-terminal His-tagged full-length human PTGS1 protein (24-599) was expressed using the baculovirus system.
Species	Human
Source	Insect Cells
ProteinLength	24-599
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. The protein may promote cell proliferation during tumor progression. Alternative splicing results in multiple transcript variants.
Molecular Mass	~70 kDa
Purity	≥85% estimated by SDS-PAGE
Unit Definition	One unit is defined as the amount of enzyme required to consume 1 nmol of oxygen per minute at 37 centigrade in 100 mM Tris, pH8.0, containing 100 μM arachidonate, 5 mM EDTA, 2 mM phenol, and 1 μM hematin.

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Stability	≥ 1 year
Storage	At -80 centigrade.
Storage Buffer	80 mM Tris, pH 8.0, with 0.01% polysorbate 20, 300 μM DDC, and 10% glycerol

GENE INFORMATION

Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 [Homo sapiens (human)]
Official Symbol	PTGS1
Synonyms	PTGS1; prostaglandin-endoperoxide synthase 1; COX1; COX3; PHS1; PCOX1; PES-1; PGHS1; PTGHS; PGG/HS; PGHS-1; prostaglandin G/H synthase 1; PGH synthase 1; cyclooxygenase-1; prostaglandin H2 synthase 1; prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); EC 1.14.99.1
Gene ID	5742
mRNA Refseq	NM_000962
Protein Refseq	NP_000953
MIM	176805
UniProt ID	P23219

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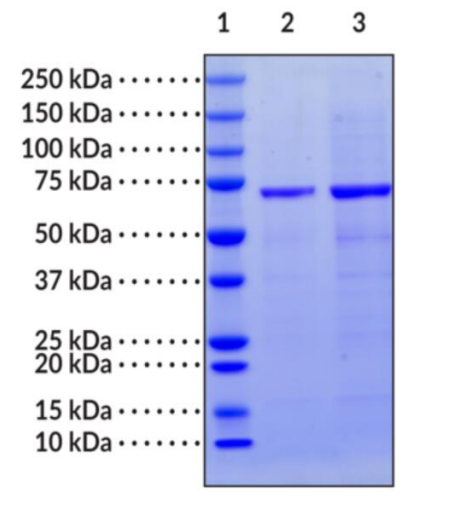
SDS-PAGE analysis of PTGS1



Lane 1: MW Markers

Lane 2: PTGS1 (2 μg)

Lane 3: PTGS1 (4 μg)

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