Recombinant Human PTGS1 protein, His & T7-tagged

Cat. No. PTGS1-733H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTGS1 aa. (Gly367~Leu599 (Accession # P23219)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Gly367~Leu599
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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 30.4kDa
Endotoxin	<1.0EU per 1μg (determined by the LAL method)
Purity	>95%

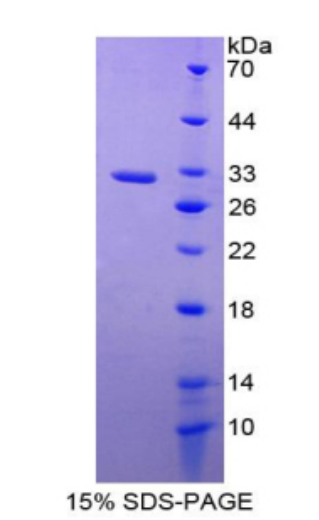
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Characteristic	The isoelectric point is 6.1.
Applications	SDS-PAGE; WB; ELISA; IP
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

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)
Gene ID	5742
mRNA Refseq	NM_000962.3

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Protein Refseq	NP_000953.2
UniProt ID	P23219
SDS-PAGE	 15% SDS-PAGE

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