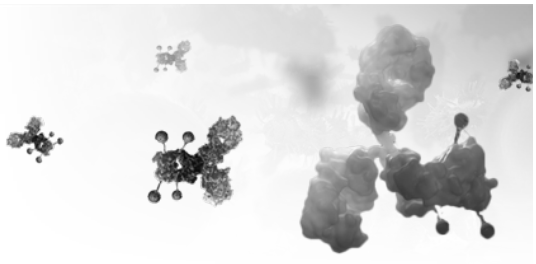

Human PTGS1 peptide (DAG-P0385)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Antigen 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. [provided by RefSeq, Jan 2014]
Purity	70 - 90% by HPLC.
Conjugate	Unconjugated
Sequence Similarities	Belongs to the prostaglandin G/H synthase family.Contains 1 EGF-like domain.
Format	Liquid
Preservative	None
Storage	Shipped at 4°C. Upon delivery aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles. Information available upon request.

GENE INFORMATION

Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) [Homo sapiens (human)]
Official Symbol	PTGS1
Synonyms	PTGS1; prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); 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

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Entrez Gene ID	5742
mRNA Refseq	NM_000962.3
Protein Refseq	NP_000953.2
UniProt ID	P23219
Chromosome Location	9q32-q33.3
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Biological oxidations, organism-specific biosystem; C20 prostanoid biosynthesis, organism-specific biosystem; C20 prostanoid biosynthesis, conserved biosystem; COX reactions, organism-specific biosystem; Eicosanoid Synthesis, organism-specific biosystem; Metabolism, organism-specific biosystem; Metabolism of lipids and lipoproteins,
Function	dioxygenase activity; heme binding; metal ion binding; peroxidase activity; prostaglandin-endoperoxide synthase activity; prostaglandin-endoperoxide synthase activity;

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