

Recombinant Full Length Human PTGS1 Protein, C-Flag-tagged

Cat. No. PTGS1-593HFL **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human PTGS1 Protein, fused to Flag-tag at C-terminus, was expressed in Mammalian cells.
Species	Human
Source	Mammalian Cells
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	25 mM Tris HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	65.9 kDa
AA Sequence	MSRSLLLRFLFLLLLPLPVLLADPGAPTPVNPCCYYPQCQHQGICVRFGLDRYQCD CTRTRGYSGPNCTI PGLWTWLRNSLRSPSFTHFLLTHGRWFWFVNATFIREMLM RLVLTVRSNLIPSPPTYNSAHDYISWES FSNVSYTRILPSVPKDCPTPMGTKGKKQ LPDAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFK TSGKMGPFGFTKALGH GVDLGHIYGDNLERQYQLRLFKDGLKYQVLDGEMYPPSVEEAPVLMHYPRGIPP Q

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SQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIG
ETIKIVIEEYVQQ LSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSF
KVGSQEYSYEQFLFNTSMLVDYGVEA LVDAFSRQIAGRIGGGRNMDHHILHVAVDV
IRESREMLRQPFNEYRKRFGMKPYTSFQELVGEKEMAAEL EELYGDIDALEFYPLGL
LLEKCHPNSIFGESMIEIGAPFSLKGLGNPICSPEYWKPSTFGGEVGFNIVKT
ATLKKLVCLNTKTCYPVVSFRVPDASQDDGPAVERPSTELTRTRPLEQKLISEEDLAA
NDILDYKDDDDKV

Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining.
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade.
Concentration	>50 ug/mL as determined by microplate BCA method.
Preparation	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Protein Families	Druggable Genome, Transmembrane
Protein Pathways	Arachidonic acid metabolism, Metabolic pathways
Full Length	Full L.

GENE INFORMATION

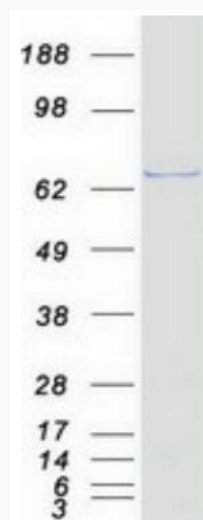
Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 [Homo sapiens (human)]
Official Symbol	PTGS1

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Synonyms	COX1; COX3; PHS1; PCOX1; PES-1; PGHS1; PTGHS; PGG/HS; PGHS-1
Gene ID	5742
mRNA Refseq	NM_000962.4
Protein Refseq	NP_000953.2
MIM	176805
UniProt ID	P23219



Coomassie blue staining of purified PTGS1 protein.