

Product datasheet for TP306436

PTGS1 (NM_000962) Human Recombinant Protein

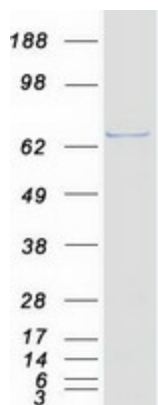
Product data:

Product Type:	Recombinant Proteins
Description:	Recombinant protein of human prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase) (PTGS1), transcript variant 1, 20 µg
Species:	Human
Expression Host:	HEK293T
Expression cDNA Clone or AA Sequence:	>RC206436 protein sequence Red =Cloning site Green =Tags(s)
	MSRSLLLRFLFLLLLPLPVLLADPGAPTPVNPCCYYPCQHQGICVRFGLDRYQCDCTRTGYSGPNCTI PGLWTWLRNSLRSPSFTFLTHGRWFWEFVNATFIREMLMRLVLTVRSNLIPSPPTYNSAHDIYSWES FSNVSYYTRILPSVPKDCPTPMGTGKGGKQLPDAQLLARRFLLRRKFIQDPQGTNLMFAFFAQHFTHQFFK TSGKMGPGFTKALGHGVDLGHYGDNLERQYQLRFLKDGKLYQVLDGEMYPPSVEEAPVLMHYPRGIP P QSQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRILIGETIKIVIEEYVQQ LSGYFLQLKFDPELLFGVQFYRNRIAMEFNHLYHWHPMPDSFKVGSQEYSYEQFLFNTSMLVDYGVEA LVDAFSRQIAGRIGGRNMDHHILHVAVDVIREMRLQPFNEYRKRFRGMKPYTSFQELVGEKEMAAEL EELYGDIDALEFYPLGLLLEKCHPNSIFGESMIEIGAPFLKGLLGNPICSPEYWKPSTFGGEVGFNIVKT ATLKKLVCLNTKTCYVVSFRVPDASQDDGPAVERPSTEL
	TRTRPLEQKLISEEDLAANDILDYKDDDDKV
Tag:	C-Myc/DDK
Predicted MW:	65.9 kDa
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3, 10% glycerol
Preparation:	Recombinant protein was captured through anti-DDK affinity column followed by conventional chromatography steps.
Note:	For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.
Storage:	Store at -80°C.



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Stability:	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
RefSeq:	NP_000953
Locus ID:	5742
UniProt ID:	P23219
RefSeq Size:	5045
Cytogenetics:	9q33.2
RefSeq ORF:	1797
Synonyms:	COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS
Summary:	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]
Protein Families:	Druggable Genome, Transmembrane
Protein Pathways:	Arachidonic acid metabolism, Metabolic pathways

Product images:

Coomassie blue staining of purified PTGS1 protein (Cat# TP306436). The protein was produced from HEK293T cells transfected with PTGS1 cDNA clone (Cat# [RC206436]) using MegaTran 2.0 (Cat# [TT210002]).