Recombinant Human PTGS1 Protein, Myc/DDK-tagged, C13 and N15-labeled

Cat. No. PTGS1-865H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	PTGS1 MS Standard C13 and N15-labeled recombinant protein (NP_000953) with a C-terminal MYC/DDK tag, was expressed in HEK293 cells.
Species	Human
Source	HEK293
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	68.7 kDa
AA Sequence	MSRSLLLRFLLFLLLLPPLPVLLADPGAPTPVNPCCYYPCQHQGICVRFGLDRYQCD CTRTGYSGPNCTIPGLWTWLRNSLRPSPSFTHFLLTHGRWFWEFVNATFIREMLMR LVLTVRSNLIPSPPTYNSAHDYISWESFSNVSYYTRILPSVPKDCPTPMGTKGKKQLP DAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFKTSGKMGPGFTKALGHGV DLGHIYGDNLERQYQLRLFKDGKLKYQVLDGEMYPPSVEEAPVLMHYPRGIPPQSQ MAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETI

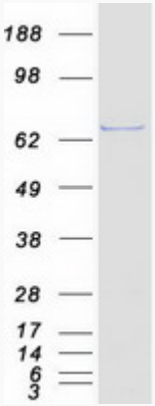
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	KIVIEEYVQQLSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSFKVG SQEYSYEQFLFNTSMLVDYGVEALVDAFSRQIAGRIGGGRNMDHHILHVAVDVIRES REMRLQPFNEYRKRFGMKPYTSFQELVGEKEMAAELEELYGDIDALEFYPGLLLEK CHPNSIFGESMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEVGFNIVKTATLKKLVCL NTKTCPYVSFRVPDASQDDGPAVERPSTELTRTRPLEQKLISEEDLAANDILDYKDD DDKV
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 3 months from receipt of products under proper storage and handling conditions.
Storage	Store at -80 centigrade. Avoid repeated freeze-thaw cycles.
Concentration	50 μg/mL as determined by BCA
Storage Buffer	100 mM glycine, 25 mM Tris-HCl, pH 7.3.

GENE INFORMATION

Gene Name	PTGS1 prostaglandin-endoperoxide synthase 1 [Homo sapiens (human)]
Official Symbol	PTGS1
Synonyms	PTGS1; prostaglandin-endoperoxide synthase 1 (prostaglandin G/H synthase and cyclooxygenase); prostaglandin G/H synthase 1; COX1; PGHS 1; PTGHS; COX-1; PHS 1; PGH synthase 1; cyclooxygenase-1; prostaglandin H2 synthase 1; prostaglandin G/H synthase and cyclooxygenase; COX3; PHS1; PCOX1; PGHS1; PGG/HS; PGHS-1;
Gene ID	5742

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mRNA Refseq	NM_000962
Protein Refseq	NP_000953
MIM	176805
UniProt ID	P23219
SDS-PAGE	

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