

Product datasheet for **PH306436**

PTGS1 (NM_000962) Human Mass Spec Standard

Product data:

Product Type:	Mass Spec Standards
Description:	PTGS1 MS Standard C13 and N15-labeled recombinant protein (NP_000953)
Species:	Human
Expression Host:	HEK293
Expression cDNA Clone or AA Sequence:	RC206436
Predicted MW:	68.7 kDa
Protein Sequence:	>RC206436 protein sequence Red=Cloning site Green=Tags(s)

MSRSLLLRFLFLLLLPLPLVLLADPGAPTVPNCCYPCQHQCICVRFGLDRYQCDCDTRTGYSGNCTI
PGLWTWLRNSLRSPSFTHFLLTHGRWFVFNATFIREMLMRLVLTVRSNLIPSPPTYNSAHDYISWES
FSNVSYTRILPSVPKDCPTPMGTGKQKLPDAQLLARRFLLRRKFIPDPQGTNLMFAFFAQHFTHQFFK
TSGKMGPGFTKALGHGVDLGHYGDNLERQYQLRFLKDGKLYQVLDGEMYPVSVEEAPVLMHYPRGIPP
QSQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTTRLILIGETIKIVIEEYVQQ
LSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHL YHWHPLMPDSFKVGSQEYSYEQFLFNTSMLVDYGV
EAEELVDAFSRQIAGRIGGGRNMDHHILHVAVDVIRESRMRLQPFNEYRKRFGMKPYTSFQELVGEKEMAAEL
EELYGDIDALEFYPLGLLLEKCHPNISIFGEMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEVGFNIVKT
ATLKKLVCLNTKTCYVVSFRVPDASQDDGPAVERPSTEL

TRTRPLEQKLISEEDLAANDILDYKDDDDKV

Tag:	C-Myc/DDK
Purity:	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration:	>0.05 µg/µL as determined by microplate BCA method
Labeling Method:	Labeled with [U- ¹³ C ₆ , ¹⁵ N ₄]-L-Arginine and [U- ¹³ C ₆ , ¹⁵ N ₂]-L-Lysine
Buffer:	25 mM Tris-HCl, 100 mM glycine, pH 7.3
Storage:	Store at -80°C. Avoid repeated freeze-thaw cycles.
Stability:	Stable for 3 months from receipt of products under proper storage and handling conditions.
RefSeq:	NP_000953
RefSeq Size:	5045
RefSeq ORF:	1797



[View online »](#)

Synonyms: COX1; COX3; PCOX1; PES-1; PGG/HS; PGHS-1; PGHS1; PHS1; PTGHS

Locus ID: 5742

UniProt ID: [P23219](#)

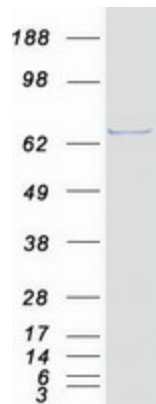
Cytogenetics: 9q33.2

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]).