

Product datasheet for TP306436M

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, 100 µg

Species: Human

Expression Host: HEK293T

Expression cDNA Clone or AA Sequence: >RC206436 protein sequence
Red=Cloning site Green=Tags(s)

MSRLLLLRFLFLLLLPLPLVLLADPGAPTVPNPCCYYPCQHQGICVRFGLDRYQCDCTRTGYSGPNCTI
PGLWTWLRNSLRPSPSFTHFLLTHGRWFEFVNATFIREMLMRLVLTVRSNLIPSPPTYNSAHDYISWES
FSNVSYYTRILPSVPKDCPTPMGKTKGKKQLPDAQLLARRFLRRKFIPDPQGTNLMFAFFAQHFTHQFFK
TSGKMGPGFTKALGHGVDLGHYGDNLERQYQLRFLKDGKLYQVLDGEMYPSPVEEAPVLMHYPRGIPP
QSQMAVGQEVFGLLPGLMLYATLWLREHNRVCDLLKAEHPTWGDEQLFQTRILILIGETIKIVIEEYVQQ
LSGYFLQLKFDPELLFGVQFQYRNRIAMEFNHLYHWHPLMPDSFKVGSQEYSYEQFLFNTSMLVDYGV
EALVDAFSRQIAGRIGGGRNMDHHILHVAVDVIREMRLQPFNEYRKRFGMKPYTSFQELVGEKEMAAEL
EELYGDIDALEFYPLGALLEKCHPNSIFGSMIEIGAPFSLKGLLGNPICSPEYWKPSTFGGEVGFNIVKT
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.

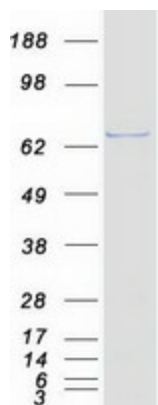
Note: For testing in cell culture applications, please filter before use. Note that you may experience some loss of protein during the filtration process.

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: | <u>NP_000953</u> |
| Locus ID: | 5742 |
| UniProt ID: | <u>P23219</u> |
| 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]).