



# Recombinant Human Prostaglandin G/H synthase 2(PTGS2),partial

<b>Product Code</b>	CSB-EP018986HU
<b>Relevance</b>	Converts arachidonate to prostaglandin H2 (PGH2), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E2 (PGE2), which plays important roles in modulating motility, proliferation and resistance to apoptosis.
<b>Storage</b>	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
<b>Uniprot No.</b>	P35354
<b>Storage Buffer</b>	Tris-based buffer,50% glycerol
<b>Alias</b>	Cyclooxygenase-2 ;COX-2;PHS IIProstaglandin H2 synthase 2 ;PGH synthase 2 ;PGHS-2;Prostaglandin-endoperoxide synthase 2
<b>Product Type</b>	Recombinant Protein
<b>Species</b>	Homo sapiens (Human)
<b>Purity</b>	Greater than 90% as determined by SDS-PAGE.
<b>Sequence</b>	ANPCCSHPCQNRGVCMSVGFQYKCDCTRTGFYGENCSTPEFLTRIKLFLKP TPNTVHYILTHFKGFWNVNNIPFLRNAIMSYVLTSRSHLIDSPPTYNADYGYK SWEAFSNLSYYTRALPPVPDDCPTPLGVKGGKQLPDSNEIVEKLLLRRKFIPDP QGSNMMFAFFAQHFTHQFFKTDHKRGAFTNGLGHGVDLNHIYGETLARQRK LRLFKDGKMKYQIIDGEMYPPTVKDTQAEMIIYPPQVPEHLRFVAVGQEVFGLVP GLMMYATIWLREHNRVCDVLKQEHPEWGDEQLFQTSRLILIGETIKIVIEDYVQ HLSGYHFKLKFDPPELLFNKQFQYQNRIAAEFNTLYHWHPLLPDTFQIHDQKYN YQQFIYNNNSILLEHGITQFVESFTRQIAGRVAGGRNVPPAVQKVSQASIDQSRQ MKYQSFNEYRKRKRFMLKPYESFEELTGEKEMSAELEALYGDIDAVELYPALLVE KPRPDAIFGETMVEVGAPFSLKGLMGNVICSPAYWKPSTFGGEVGFQIINTASI QSLICNNVKGCPFTSFSVPDPELIKTVTINASSSRSGLDINPTVLLKERS
<b>Research Area</b>	Metabolism
<b>Source</b>	E.coli
<b>Gene Names</b>	PTGS2
<b>Expression Region</b>	18-601aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at

