



# Recombinant Human Prostaglandin G/H synthase 1 (PTGS1)

<b>Product Code</b>	CSB-BP018985HU
<b>Storage</b>	Store at -20°C, for extended storage, conserve at -20°C or -80°C.
<b>Uniprot No.</b>	P23219
<b>Product Type</b>	Recombinant Protein
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Purity</b>	>85% (SDS-PAGE)
<b>Sequence</b>	ADPGAPT PVNPCCYYPC QHQGICVRFG LDRYQCDCTR TGYSGPNCTI PGLWTWLRNS LRPSPSFTHF LLTHGRWFWE FVNATFIREM LMRLVLTVRS NLIPSPPTYN SAHDYISWES FSNVSYTRI LPSVPKDCPT PMGTKGKKQL PDAQLLARRF LLRRKFIPDP QGTNLMFAFF AQHFTHQFFK TSGKMGPGFT KALGHGVDLG HIYGDNLERQ YQLRLFKDYGK LKYQVLDGEM YPPSVEEAPV LMHYPRGIPP QSQMAVGQEV FGLLPGLMLY ATLWLREHNR VCDLLKAEHP TWGDEQLFQT TRLILIGETI KIVIEEYVQQ LSGYFLQLKF DPELLFGVQF QYRNRIAMEF NHLYHWHPLM PDSFKVGSQE YSYEQFLFNT SMLVDYGVEA LVDAFSRQIA GRIGGGRNMD HHILHVAVDV IRESREMLRQ PFNEYRKRFG MKPYTSFQEL VGEKEMAAEL EELYGDIDAL EFYPGLLLEK CHPNSIFGES MIEIGAPFSL KGLLGNPICS PEYWKPFSTFG GEVGFNIVKT ATLKKLVCLN TKTCPYVSFR VPDASQDDGP AVERPSTEL
<b>Source</b>	Baculovirus
<b>Target Names</b>	PTGS1
<b>Protein Names</b>	Recommended name: Prostaglandin G/H synthase 1 EC= 1.14.99.1 Alternative name(s): Cyclooxygenase-1 Short name= COX-1 Prostaglandin H2 synthase 1 Short name= PGH synthase 1 Short name= PGHS-1 Short name= PHS 1
<b>Expression Region</b>	24-599
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag type will be determined during the manufacturing process.
<b>Protein Length</b>	Full Length of Mature Protein
<b>Target Details</b>	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes PTGS1, which regulates angiogenesis in endothelial cells, and is inhibited by nonsteroidal anti-inflammatory drugs such as aspirin. PTGS1 is thought to be involved in cell-cell signaling and maintaining tissue homeostasis. Alternative splicing of this gene generates two transcript variants. The expression of these two transcripts is



differentially regulated by relevant cytokines and growth factors.

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**Reconstitution**

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

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**Shelf Life**

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.