

## Recombinant Mouse Ptgs2 protein, His-tagged

**Cat. No.** Ptgs2-679M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Ptgs2 aa. (Tyr240~Leu351) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Tyr240~Leu351
<b>Description</b>	This gene encodes an enzyme that is a member of the prostaglandin G/H synthase family. The encoded protein converts arachidonic acid to prostaglandin endoperoxide H2 which is a key enzymatic step in prostaglandin biosynthesis. This gene is the inducible prostaglandin G/H synthase family member that is upregulated during inflammation. Aberrant regulation of this gene is associated with cancer progression in several tissues and an increased risk of cardiovascular events. This gene is the target of many non-steroidal anti-inflammatory drugs.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	14kDa as determined by SDS-PAGE reducing conditions.
<b>Endotoxin</b>	<1.0EU per 1g (determined by the LAL method)
<b>Purity</b>	>95%

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<b>Characteristic</b>	The isoelectric point is 5.6.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage buffer</b>	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
<b>Reconstitution</b>	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Ptgs2 prostaglandin-endoperoxide synthase 2 [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Ptgs2</a>
<b>Synonyms</b>	Ptgs2; prostaglandin-endoperoxide synthase 2; COX2; Cox-2; PES-2; PHS-2; Pghs2; TIS10; PGHS-2; PHS II; gripghs; prostaglandin G/H synthase 2; PGH synthase 2; cyclooxygenase-2; glucocorticoid-regulated inflammatory cyclooxygenase; macrophage activation-associated marker protein P71/73; prostaglandin H2 synthase 2
<b>Gene ID</b>	<a href="#">19225</a>
<b>mRNA Refseq</b>	<a href="#">NM_011198.4</a>

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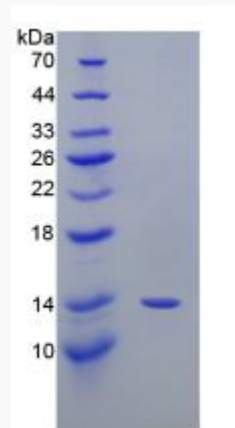
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**Protein Refseq** NP\_035328.2

**UniProt ID** Q05769

**SDS-PAGE**



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