

Recombinant Mouse Ptgs2 protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Ptgs2 aa. (Tyr240~Leu351) fused with N-terminal His tag was produced in E. coli cells.
Species	Mouse
Source	E.coli
ProteinLength	Tyr240~Leu351
Description	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.
Form	Freeze-dried powder
Molecular Mass	14kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%

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Characteristic	The isoelectric point is 5.6.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Ptgs2 prostaglandin-endoperoxide synthase 2 [Mus musculus (house mouse)]
Official Symbol	Ptgs2
Synonyms	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
Gene ID	19225
mRNA Refseq	NM_011198.4

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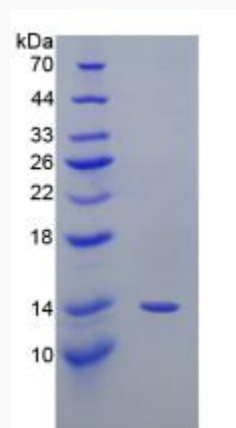
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Protein Refseq NP_035328.2

UniProt ID Q05769

SDS-PAGE



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