

Recombinant Rat Ptgs1 protein, His & T7-tagged

Cat. No. Ptgs1-819R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Ptgs1 aa. (Pro23~Tyr277 (Accession # Q63921)) fused with N-terminal His & T7 tag was produced in E. coli cells.
Species	Rat
Source	E.coli
ProteinLength	Pro23~Tyr277
Description	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.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 32.9kDa
Endotoxin	<1.0EU per 1g (determined by the LAL method)
Purity	>95%
Characteristic	The isoelectric point is 9.

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Applications	SDS-PAGE; WB; ELISA; IP.
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	Supplied as lyophilized form in PBS, pH7.4, containing 5% trehalose, 0.01% sarcosyl.
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.

GENE INFORMATION

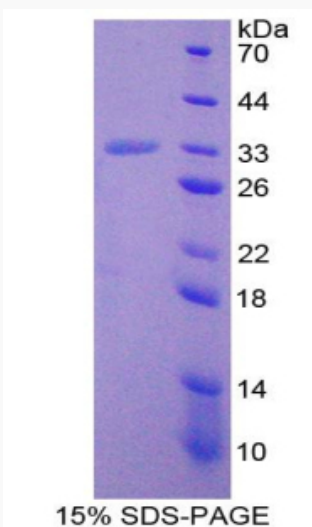
Gene Name	Ptgs1 prostaglandin-endoperoxide synthase 1 [Rattus norvegicus (Norway rat)]
Official Symbol	Ptgs1
Synonyms	Cox1; Cox3; Cox-1; Cox-3; Pghs-1; PGH synthase 1; PHS 1; cyclooxygenase 3; cyclooxygenase-1; prostaglandin G/H synthase and cyclooxygenase; prostaglandin H2 synthase 1; prostaglandin G/H synthase 1
Gene ID	24693
mRNA Refseq	NM_017043.4
Protein Refseq	NP_058739.4
UniProt ID	Q63921

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SDS-PAGE



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