

Recombinant Full Length Mouse Ptges Protein, Myc/DDK-tagged

Cat. No. Ptges-5220M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Purified recombinant protein of mouse full-length prostaglandin E synthase (Ptges), with C-terminal MYC/DDK tag, expressed in HEK293T cells.
Species	Mouse
Source	HEK293
Description	Terminal enzyme of the cyclooxygenase (COX)-2-mediated prostaglandin E2 (PGE2) biosynthetic pathway. Catalyzes the glutathione-dependent oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) in response to inflammatory stimuli. Plays a key role in inflammation response, fever and pain. Catalyzes also the oxidoreduction of endocannabinoids into prostaglandin glycerol esters and PGG2 into 15-hydroperoxy-PGE2. In addition, displays low glutathione transferase and glutathione-dependent peroxidase activities, toward 1-chloro-2,4-dinitrobenzene and 5-hydroperoxyicosatetraenoic acid (5-HPETE), respectively.
Molecular Mass	17.7 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Stability	Stable for 12 months from the date of receipt of the product under proper storage and handling conditions. Avoid repeated freeze-thaw cycles.
Storage	Store at -80 centigrade after receiving vials.

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Concentration	>50 µg/mL as determined by microplate BCA method
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Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
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GENE INFORMATION

Gene Name	Ptges prostaglandin E synthase [Mus musculus (house mouse)]
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Official Symbol	Ptges
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Synonyms	PTGES; prostaglandin E synthase; microsomal prostaglandin E synthase 1; Pges; mPGES; mPGES-1; D2Ertd369e; 2410099E23Rik
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Gene ID	64292
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mRNA Refseq	NM_022415
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Protein Refseq	NP_071860
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UniProt ID	Q9JM51
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