

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

Cat. No. Ptgds-5218M **Lot. No.** (See product label)

SPECIFICATION

Product Overview

Purified recombinant protein of mouse full-length prostaglandin D2 synthase (brain) (cDNA clone MGC:47365 IMAGE:4481308), complete cds, with C-terminal MYC/DDK tag, expressed in HEK293T cells.

Species

Mouse

Source

HEK293

ProteinLength

1-189 a.a.

Description

Catalyzes the conversion of PGH2 to PGD2, a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. Involved in a variety of CNS functions, such as sedation, NREM sleep and PGE2-induced allodynia, and may have an anti-apoptotic role in oligodendrocytes. Binds small non-substrate lipophilic molecules, including biliverdin, bilirubin, retinal, retinoic acid and thyroid hormone, and may act as a scavenger for harmful hydrophobic molecules and as a secretory retinoid and thyroid hormone transporter. Possibly involved in development and maintenance of the blood-brain, blood-retina, blood-aqueous humor and blood-testis barrier. It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system. Involved in PLA2G3-dependent maturation of mast cells. PLA2G3 is secreted by immature mast cells and acts on nearby fibroblasts upstream to PTGDS to synthesize PGD2, which in turn promotes mast cell maturation and degranulation via PTGDR.

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Molecular Mass	13.9 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.
Concentration	>50 µg/mL as determined by microplate BCA method
Storage Buffer	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.

GENE INFORMATION

Gene Name	Ptgds prostaglandin D2 synthase (brain) [Mus musculus (house mouse)]
Official Symbol	Ptgds
Synonyms	Ptgds; prostaglandin D2 synthase (brain); L-P; PGD; Ptg; PGD2; PGDS; 21kDa; PGDS2; Ptg3; L-PGDS; prostaglandin-H2 D-isomerase; PGD2 synthase; glutathione-independent PGD synthase; glutathione-independent PGD synthetase; lipocalin-type prostaglandin-D synthase; prostaglandin D2 synthase (21 kDa, brain); prostaglandin-D2 synthase; EC 5.3.99.2
Gene ID	19215
mRNA Refseq	NM_008963
Protein Refseq	NP_032989

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UniProt ID

O09114

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