

# Active Recombinant Full Length Rat Ptgds Protein, GST-tagged

**Cat. No.** Ptgds-115R    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                 |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Active recombinant N-terminal GST-tagged rat Ptgds protein was purified from E. coli.                                                                           |
| <b>Species</b>          | Rat                                                                                                                                                             |
| <b>Source</b>           | E.coli                                                                                                                                                          |
| <b>ProteinLength</b>    | 1-189 a.a.                                                                                                                                                      |
| <b>Description</b>      | Catalyzes conversion of prostaglandin H2 to prostaglandin D2, a major prostaglandin that mediates sleep, body temperature, hormone release, and odor responses. |
| <b>Molecular Mass</b>   | 47.5 kDa                                                                                                                                                        |
| <b>Purity</b>           | ≥95% as determined by SDS-PAGE                                                                                                                                  |
| <b>Unit Definition</b>  | One unit of enzyme produces 1 μmol of PGD2 per minutes at 25 centigrade in 100 mM Tris-HCl, pH 8.0, containing 1 mM DTT and 40 μM PGH2.                         |
| <b>Stability</b>        | ≥ 6 months                                                                                                                                                      |
| <b>Storage</b>          | At -80 centigrade.                                                                                                                                              |
| <b>Storage Buffer</b>   | 50 mM sodium phosphate, pH 7.2, containing 100 mM sodium chloride, 1 mM DTT, 0.5 mM EDTA, and 20% glycerol                                                      |

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## GENE INFORMATION

|                 |                                                                                                                                                                                                                                                                                                      |
|-----------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Gene Name       | Ptgds prostaglandin D2 synthase [ Rattus norvegicus (Norway rat) ]                                                                                                                                                                                                                                   |
| Official Symbol | Ptgds                                                                                                                                                                                                                                                                                                |
| Synonyms        | Ptgds; prostaglandin D2 synthase; PH2DISO; prostaglandin-H2 D-isomerase; PGD2 synthase; PGDS; PGDS2; Prostaglandin D synthase; glutathione-independent PGD synthase; glutathione-independent PGD synthetase; lipocalin-type prostaglandin-D synthase; prostaglandin D2 synthase (brain); EC 5.3.99.2 |
| Gene ID         | 25526                                                                                                                                                                                                                                                                                                |
| mRNA Refseq     | NM_013015                                                                                                                                                                                                                                                                                            |
| Protein Refseq  | NP_037147                                                                                                                                                                                                                                                                                            |
| UniProt ID      | P22057                                                                                                                                                                                                                                                                                               |

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