

Recombinant Human PTGDS Protein, GST-tagged

Cat. No. PTGDS-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTGDS protein with a N-terminal GST-tag was expressed in E. coli.
Species	Human
Source	E.coli
Description	The protein encoded by this gene is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of prostaglandin H2 (PGH2) to postaglandin D2 (PGD2). PGD2 functions as a neuromodulator as well as a trophic factor in the central nervous system. PGD2 is also involved in smooth muscle contraction/relaxation and is a potent inhibitor of platelet aggregation. This gene is preferentially expressed in brain. Studies with transgenic mice overexpressing this gene suggest that this gene may be also involved in the regulation of non-rapid eye movement sleep.
Molecular Mass	46 kDa
Purity	≥85% estimated by SDS-PAGE
Stability	≥ 2 years
Storage	Store it at -80 centigrade
Storage Buffer	50 mM sodium phosphate, pH 7.2, containing 20% glycerol, 150 mM sodium chloride,

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1 mM DTT, and 0.5 mM EDTA

GENE INFORMATION

Gene Name [PTGDS prostaglandin D2 synthase \[Homo sapiens \(human\) \]](#)

Official Symbol [PTGDS](#)

Synonyms

PTGDS; prostaglandin D2 synthase; PDS; PGD2; PGDS; LPGDS; PGDS2; L-PGDS; prostaglandin-H2 D-isomerase; PGD2 synthase; beta-trace protein; cerebrin-28; glutathione-independent PGD synthase; glutathione-independent PGD synthetase; lipocalin-type prostaglandin D synthase; prostaglandin D synthase; prostaglandin D2 synthase 21kDa (brain); testis tissue sperm-binding protein Li 63n

Gene ID [5730](#)

mRNA Refseq [NM_000954](#)

Protein Refseq [NP_000945](#)

MIM [176803](#)

UniProt ID [P41222](#)

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SDS-PAGE Analysis of PTGDS



Lane 1: MW Markers; Lane 2: Prostaglandin D Synthase (lipocalin-type; human recombinant) (2 μ g); Lane 3: Prostaglandin D Synthase (lipocalin-type; human recombinant) (4 μ g). Representative gel image shown; actual purity may vary between each batch.

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