

# Recombinant Mouse Prostaglandin-H2 D-isomerase/PTGDS Protein

Catalog No.: RP02961 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	19215	O09114

### Tags

C-His

### Synonyms

PGD2; PGDS; PGDS2; PtgS3; L-PGDS

## Background

PTGDS, also known as L-PGDS, belongs to the calycin superfamily, lipocalin family. Lipocalins share limited regions of sequence homology and a common tertiary structure architecture. They transport small hydrophobic molecules such as steroids, bilins, retinoids, and lipids. PTGDS is a glutathione-independent prostaglandin D synthase that catalyzes the conversion of PGH2 to PGD2. It is involved in smooth muscle contraction/relaxation and a variety of central nervous system functions. PTGDS may have an anti-apoptotic role in oligodendrocytes. It 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. It is likely to play important roles in both maturation and maintenance of the central nervous system and male reproductive system.

## Product Information

Source	Purification
HEK293 Cells	> 95% by SDS-PAGE.

### Endotoxin

&lt;1EU/μg

### Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening.  
Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Basic Information

### Description

Recombinant Mouse Prostaglandin-H2 D-isomerase/PTGDS Protein is produced by HEK293 Cells expression system. The target protein is expressed with sequence (Met1-Glu189) of mouse Prostaglandin-H2 D-isomerase/PTGDS (Accession #NP\_032989.2) fused with a 6×His tag at the C-terminus.

### Bio-Activity

### Storage

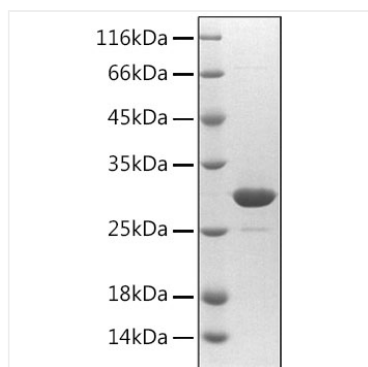
Store the lyophilized protein at -20°C to -80°C for long term.  
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.  
Avoid repeated freeze/thaw cycles.

## Contact

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## Validation Data

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Recombinant Mouse Prostaglandin-H2 D-isomerase/PTGDS Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 28-32 kDa.