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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 hydrophopic 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 % as determined by SDS-PAGE.

Calculated MW	Observed MW
19.9 kDa	25-30 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

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 stablizer (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

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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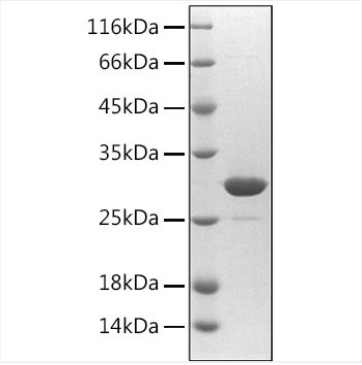
Validation Data



Recombinant Mouse Prostaglandin-H2 D-isomerase/PTGDS Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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