

Recombinant Mouse Prostaglandin-H2 D-isomerase /PTGDS Protein

Catalog No.: RP02961

Sequence Information

Species **Gene ID**
Mouse 19215

Swiss Prot **Tags**
O09114 C-His

Synonyms

PGD2; PGDS; PGDS2; Ptgs3; L-PGDS

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 stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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.

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.

Activity

Shipping

Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

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

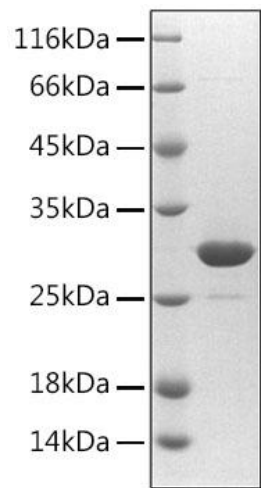
Contact

☎ | 400-999-6126

✉ | cn.market@abclonal.com.cn

🌐 | www.abclonal.com.cn

Validation Data



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