

PTGDS / L-PGDS recombinant protein

Recombinant Human PTGDS / L-PGDS Protein (His tag)

CATALOG #
AAA173530

HOST
Human Cells

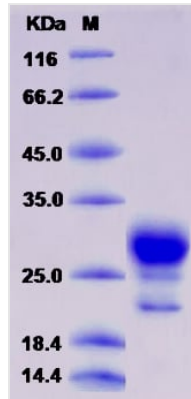
PRODUCT SYNONYMS

PTGDS / L-PGDS; Recombinant Human PTGDS / L-PGDS Protein (His tag); PTGDS; PDS; PTGDS / L-PGDS recombinant protein

PRODUCT SPECIFICATIONS

Host	Human Cells
Purity/Purification	> 80 % as determined by SDS-PAGE
Form/Format	Lyophilized from sterile PBS, pH 7.4
Sequence Length	190
Predicted N Terminal	Ala 23
Endotoxin	< 1.0 EU per mug of the protein as determined by the LAL method
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PTGDS / L-PGDS recombinant protein

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.

Description: A DNA sequence encoding the human PTGDS (P41222) (Met1-Gln190) was expressed with a polyhistidine tag at the C-terminus.

NCBI AND UNIPROT INFORMATION

NCBI GI #	32171249
NCBI GeneID	5730
NCBI Accession #	NP_000945.3
NCBI GenBank Nucleotide #	NM_000954.5
UniProt Accession #	P41222; Q5SQ10; Q7M4P3; Q9UC22; Q9UCC9; Q9UCD9; B2R727
Molecular Weight	21,029 Da
NCBI Official Full Name	prostaglandin-H2 D-isomerase
NCBI Official Synonym Full Names	prostaglandin D2 synthase
NCBI Official Symbol	PTGDS
NCBI Official Synonym Symbols	PDS; PGD2; PGDS; LPGDS; PGDS2; L-PGDS
NCBI Protein Information	prostaglandin-H2 D-isomerase
UniProt Protein Name	Prostaglandin-H2 D-isomerase
UniProt Gene Name	PTGDS
UniProt Synonym Gene Names	PDS; PGD2 synthase; PGDS; PGDS2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/ptgds-recombinant-protein-human-cells/173530>