

Recombinant Human PGD2 Synthase/PTGDS Protein (His Tag)



Catalog Number: PKSH030653

1 Publications

Note: Centrifuge before opening to ensure complete recovery of vial contents.

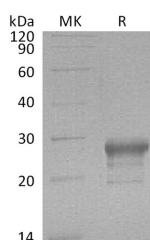
Description

Synonyms	Prostaglandin D Synthase; Prostaglandin-H2 D-Isomerase; Beta-Trace Protein; Cerebrin-28; Glutathione-Independent PGD Synthase; Lipocalin-Type Prostaglandin-D Synthase; Prostaglandin-D2 Synthase; PGD2 Synthase; PGDS; PGDS2; PTGDS; PDS
Species	Human
Expression Host	HEK293 Cells
Sequence	Ala23-Gln190
Accession	P41222
Calculated Molecular Weight	19.7 kDa
Observed molecular weight	20-27 kDa
Tag	C-His

Properties

Purity	> 95 % as determined by reducing SDS-PAGE.
Endotoxin	< 1.0 EU per µg of the protein as determined by the LAL method.
Storage	Store at < -20°C, stable for 6 months. Please minimize freeze-thaw cycles.
Shipping	This product is provided as liquid. It is shipped at frozen temperature with blue ice/gel packs. Upon receipt, store it immediately at < -20°C.
Formulation	Supplied as a 0.2 µm filtered solution of 20mM Tris-HCl, 150mM NaCl, 10% Glycerol, pH 7.5.
Reconstitution	Not Applicable

Data



> 95 % as determined by reducing SDS-PAGE.

Background

Prostaglandin-H2 D-Isomerase (PTGDS) belongs to the Lipocalin family of calycin superfamily. PTGDS is preferentially expressed in the brain. PTGDS catalyzes the conversion of PGH2 to PGD2; a prostaglandin involved in smooth muscle contraction/relaxation and a potent inhibitor of platelet aggregation. PTGDS is involved in a variety of CNS functions; such as sedation; REM sleep and PGE2-induced allodynia; and may have an anti-apoptotic role in oligodendrocytes. PTGDS binds small non-substrate lipophilic molecules and may act as a scavenger for harmful hydrophobic molecules and a secretory retinoid and thyroid hormone transporter. It possibly participates in development and maintenance of the blood-brain; blood-retina; blood-aqueous humor; blood-testis barrier; the central nervous system and male reproductive system.

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