Datasheet for ABIN7318101

PTGDS Protein (His tag)

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Overview

Quantity:	100 µg
Target:	PTGDS
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTGDS protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human PGD2 Synthase/PTGDS Protein (His Tag)
Sequence:	Met 1-Gln190
Characteristics:	A DNA sequence encoding the human PTGDS (P41222) (Met1-Gln190) was expressed with a polyhistidine tag at the C-terminus.
Purity:	> 80 % as determined by reducing SDS-PAGE.
Endotoxin Level:	< 1.0 EU per µg of the protein as determined by the LAL method.

Target Details

Target:	PTGDS
Alternative Name:	PGD2 Synthase/PTGDS (PTGDS Products)
Background:	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

Target Details

	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. Synonym: 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
Molecular Weight:	20.1 kDa
UniProt:	P41222

Application Details

Restrictions:	For Research Use only

Handling

Format:	Lyophilized
Reconstitution:	Please refer to the printed manual for detailed information.
Buffer:	Lyophilized from sterile PBS, pH 7.4
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.