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Datasheet for ABIN1691436

PTGDS Protein (AA 23-190) (His tag)

Overview

Quantity:	50 µg
Target:	PTGDS
Protein Characteristics:	AA 23-190
Origin:	Human
Source:	Human Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTGDS protein is labelled with His tag.

Product Details

Purpose:	Recombinant Human Prostaglandin-H2 D-Isomerase/PTGDS (C-6His)
Sequence:	APEAQVSVQP NFQQDKFLGR WFSAGLASNS SWLREKKAAL SMCKSVVAPA TDGGLNLTST FLRKNQCETR TMLLPAGSL GSYSYRSPHW GSTYSVSVWE TDYDQYALLY SQGSKGPGED FRMATLYSRT QTPRAELKEK FTAFCQAQGF TEDTIVFLPQ TDKCMTEQVD HHHHHH
Characteristics:	Recombinant Human Prostaglandin-H2 D-Isomerase/PTGDS (C-6His)
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/µg (1 IEU/µg) as determined by LAL test

Target Details

Target:	PTGDS
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Target Details

Alternative Name:	Prostaglandin-H2 D-Isomerase/PTGDS (PTGDS Products)
Background:	<p>Recombinant Human Prostaglandin-H2 D-Isomerase/PTGDS is produced by our mammalian expression system in human cells. The target protein is expressed with sequence (Ala23-Gln190) of Human PTGDS fused with a polyhistidine tag at the C-terminus.</p> <p>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.</p> <p>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.</p>
Molecular Weight:	19.7 kDa
UniProt:	P41222

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Liquid
Reconstitution:	<p>It is not recommended to reconstitute to a concentration less than 100 µg/mL.</p> <p>Dissolve the lyophilized protein in ddH2O.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
Buffer:	Supplied as a 0.2 µm filtered solution of 20 mM TrisHCl, 150 mM NaCl, 10 % Glycerol, pH 7.5.
Handling Advice:	Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
Storage:	-80 °C
Storage Comment:	<p>Store at < -20°C, stable for 6 months after receipt.</p> <p>Please minimize freeze-thaw cycles.</p>
Expiry Date:	6 months