

[Go to Product page](#)

Datasheet for ABIN7558965

**PTGES2 Protein (AA 1-384) (His tag)**

## Overview

Quantity:	1 mg
Target:	PTGES2
Protein Characteristics:	AA 1-384
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTGES2 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

## Product Details

Purpose:	Custom-made recombinat Ptges2 Protein expressed in mammalien cells.
Sequence:	MAQAARLSWV LVSSRCALTE GLLTRPWQPL SAQSRAGFTR VAAGSRGA AV RKGSPRLGGA AALALGGALG LYHTVRWHQR SQDLRAERSA AQLPLSNLQ LTLYQYKTCF FCSKVRAFLD FHSLPYQVVE VNPVRRTEIK FSSYRKVPIL VAQEGDSLQQ LNDSSVIISA LKTYLVSGQP LEEVITYYPP MKAMNDQGKE VTEFCNKYWL MLDEKEAQQM YGGKEARTEE MKWRQWADDW LVHLISPNVY RTPAEALASF DYIVREGKFG AVEAAMAKYV GAAAMYLSK RLKSRHHLQD DVRVDLYEAA NKWVTAVGKD RPFMGGQKPN LADLAVYGV LRVMEGLEAFD DLMRHSHIQP WYLRMERAIE EAPSVHHVNP SCKD <b>Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.</b>
Characteristics:	Key Benefits:

## Product Details

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- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.

If you are not interested in a full length protein, please contact us for individual protein fragments.

The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.

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Purity: > 90 % as determined by Bis-Tris Page, Western Blot

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Grade: custom-made

## Target Details

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Target: PTGES2

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Alternative Name: Ptges2 ([PTGES2 Products](#))

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Background: Prostaglandin E synthase 2 (EC 5.3.99.3) (GATE-binding factor 1) (GBF-1) (Microsomal prostaglandin E synthase 2) (mPGES-2) [Cleaved into: Prostaglandin E synthase 2 truncated form],FUNCTION: Isomerase that catalyzes the conversion of PGH2 into the more stable prostaglandin E2 (PGE2) (in vitro). The biological function and the GSH-dependent property of PTGES2 is still under debate (By similarity). In vivo, PTGES2 could form a complex with GSH and heme and would not participate in PGE2 synthesis but would catalyze the degradation of prostaglandin E2 H2 (PGH2) to 12(S)-hydroxy-5(Z),8(E),10(E)-heptadecatrienoic acid (HHT) and malondialdehyde (MDA) (By similarity). May also have transactivation activity toward IFN-gamma (IFNG), possibly via an interaction with CEBPB, however, the relevance of transcription activation activity remains unclear (PubMed:12050152). {ECO:0000250|UniProtKB:Q9H7Z7, ECO:0000250|UniProtKB:Q9N0A4, ECO:0000303|PubMed:12050152}.

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Molecular Weight: 43.3 kDa

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UniProt: [Q8BWM0](#)

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## Target Details

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Pathways: [Interferon-gamma Pathway](#), [Cell RedoxHomeostasis](#), [SARS-CoV-2 Protein Interactome](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months