

Datasheet for ABIN7551117

## Prostaglandin E Synthase Protein (PTGES) (AA 1-152) (His tag)



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### Overview

Quantity:	1 mg
Target:	Prostaglandin E Synthase (PTGES)
Protein Characteristics:	AA 1-152
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This Prostaglandin E Synthase protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant PTGES Protein expressed in mammalian cells.
Sequence:	MPAHSVMSS PALPAFLCS TLLVIKMYVV AITGQVRLR KKAFFANPEDA LRHGGPQYCR SDPDVERCLR AHRNDMETIY PFLFLGFVYS FLGPNPFVAW MHFLVFLVGR VAHTVAYLGK LRAPRSVTY TLAQLPCASM ALQILWEAAR HL <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>
Specificity:	If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.
Characteristics:	Key Benefits: <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and</li></ul>

## Product Details

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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, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
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Grade:	custom-made
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## Target Details

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Target:	Prostaglandin E Synthase (PTGES)
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Alternative Name:	PTGES ( <a href="#">PTGES Products</a> )
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Background:	<p>Prostaglandin E synthase (EC 5.3.99.3) (Glutathione peroxidase PTGES) (EC 1.11.1.-) (Glutathione transferase PTGES) (EC 2.5.1.18) (Microsomal glutathione S-transferase 1-like 1) (MGST1-L1) (Microsomal prostaglandin E synthase 1) (MPGES-1) (p53-induced gene 12 protein),FUNCTION: Terminal enzyme of the cyclooxygenase (COX)-2-mediated prostaglandin E2 (PGE2) biosynthetic pathway. Catalyzes the glutathione-dependent oxidoreduction of prostaglandin endoperoxide H2 (PGH2) to prostaglandin E2 (PGE2) in response to inflammatory stimuli (PubMed:18682561, PubMed:10377395, PubMed:12672824, PubMed:12460774, PubMed:10869354, PubMed:12244105). Plays a key role in inflammation response, fever and pain (By similarity). Catalyzes also the oxidoreduction of endocannabinoids into prostaglandin glycerol esters and PGG2 into 15-hydroperoxy-PGE2 (PubMed:12244105, PubMed:12672824). In addition, displays low glutathione transferase and glutathione-dependent peroxidase activities, toward 1-chloro-2,4-dinitrobenzene and 5-hydroperoxyicosatetraenoic acid (5-HPETE), respectively (PubMed:12672824).</p> <p>{ECO:0000250 UniProtKB:Q9JM51, ECO:0000269 PubMed:10377395, ECO:0000269 PubMed:10869354, ECO:0000269 PubMed:12244105, ECO:0000269 PubMed:12460774, ECO:0000269 PubMed:12672824, ECO:0000269 PubMed:18682561}.</p>
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## Target Details

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Molecular Weight: 17.1 kDa

UniProt: [O14684](#)

## Application Details

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Application Notes: We expect the protein to work for functional studies. 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