Datasheet for ABIN7560118

PTGR1 Protein (AA 1-329) (His tag)

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Overview

Quantity:	1 mg
Target:	PTGR1
Protein Characteristics:	AA 1-329
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This PTGR1 protein is labelled with His tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Purpose:	Custom-made recombinat Ptgr1 Protein expressed in mammalien cells.
Sequence:	MVQAKSWTLK KHFEGFPTDG NFELKTTELP PLNNGEVLLE ALFLSVDPYM RVAAKKLKEG DRMMGEQVAR VVESKNSAFP KGTIVAALLG WTSHSISDGN GLTKLPVEWP DKLPLSLALG TVGMPGLTAY FGLLDICGVK GGETVMVSAA AGAVGSVVGQ IAKLKGCKVV GTAGSDEKVA YLKKLGFDVA FNYKTVKSLE EALRTASPDG YDCYFDNVGG EFSNAVILQM KTFGRIAICG AISQYNRTGP CPQGPAPEVV IYQQLRMEGF IVNRWQGEVR QKALTELMNW VSEGKVQCHE YVTEGFEKMP AAFMGMLKGE NLGKTIVKA **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.**
Characteristics:	Key Benefits:

Product Details

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalien 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.

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

Target Details

Target:	PTGR1
Alternative Name:	Ptgr1 (PTGR1 Products)
Background:	Prostaglandin reductase 1 (PRG-1) (15-oxoprostaglandin 13-reductase) (EC 1.3.1.48) (Dithiolethione-inducible gene 1 protein) (D3T-inducible gene 1 protein) (DIG-1) (Leukotriene B4 12-hydroxydehydrogenase) (NAD(P)H-dependent alkenal/one oxidoreductase) (EC 1.3.1.74),FUNCTION: NAD(P)H-dependent oxidoreductase involved in metabolic inactivation of pro- and anti-inflammatory eicosanoids: prostaglandins (PG), leukotrienes (LT) and lipoxins (LX). Catalyzes with high efficiency the reduction of the 13,14 double bond of 15-oxoPGs, including 15-oxo-PGE1, 15-oxo-PGE2, 15-oxo-PGF1-alpha and 15-oxo-PGF2-alpha (By similarity). Catalyzes with lower efficiency the oxidation of the hydroxyl group at C12 of LTB4 and its derivatives, converting them into biologically less active 12-oxo-LTB4 metabolites (By similarity). Reduces 15-oxo-LXA4 to 13,14 dihydro-15-oxo-LXA4, enhancing neutrophil recruitment at the inflammatory site (By similarity). Plays a role in metabolic detoxification of alkenals and ketones. Reduces alpha,beta-unsaturated alkenals and ketones, particularly those with medium-chain length, showing highest affinity toward (2E)-decenal and (3E)-3-nonen-2-one (By similarity). May inactivate 4-hydroxy-2-nonenal, a cytotoxic lipid constituent of oxidized

Target Details

	low-density lipoprotein particles (By similarity). {ECO:0000250|UniProtKB:P97584, ECO:0000250|UniProtKB:Q14914, ECO:0000250|UniProtKB:Q29073}.
Molecular Weight:	35.6 kDa
UniProt:	Q91YR9

Application Details

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

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