

# Recombinant human PTGR2 protein

Catalog Number: ATGP1505

## PRODUCT INFORMATION

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### Expression system

E.coli

### Domain

1-351aa

### UniProt No.

Q8N8N7

### NCBI Accession No.

NP\_689657.1

### Alternative Names

Prostaglandin reductase 2, PGR2, ZADH1

## PRODUCT SPECIFICATION

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### Molecular Weight

41 kDa (375aa) confirmed by MALDI-TOF

### Concentration

1mg/ml (determined by Bradford assay)

### Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT, 50mM NaCl

### Purity

> 90% by SDS-PAGE

### Tag

His-Tag

### Application

SDS-PAGE

### Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

## BACKGROUND

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### Description

PTGR2 belongs to the medium-chain dehydrogenase/reductase superfamily. PTGR2 catalyzes an NADPH-dependent reduction of the conjugated alpha, beta-unsaturated double bond of 15-keto-PGE (2), a key step in terminal inactivation of prostaglandins and suppression of PPARgamma-mediated adipocyte differentiation. Selective inhibition of PTGR2 may contribute to the improvement of insulin sensitivity with fewer side effects. Recombinant human PTGR2 protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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## Amino acid Sequence

<MGSSHHHHHH SSGLVPRGSH MGSH>MIVQRV VLNSRPGKNG NPVAENFRME EVYLPDNINE GQVQVRTLYL  
SVDPYMRCRM NEDTGTDYIT PWQLSQVVDG GGIGIIEESK HTNLTKGDFV TSFYWPWQTK VILDGNSLEK VDPQLVDGHL  
SYFLGAIGMP GLTSLIGIQE KGHITAGSNK TMVVSGAAGA CGSVAGQIGH FLGCSRVVG I CGTHEKCILL TSELGFDAAI  
NYKKDNVAEQ LRESCPAGVD VYFDNVGGNI SDTVISQMNE NSHIILCGQI SQYNKDVPYP PPLSPAIEAI QKERNITRER  
FLVLNYKDKF EPGILQLSQW FKEGKLIKE TVINGLENMG AAFQSMMTGG NIGKQIVCIS EEISL

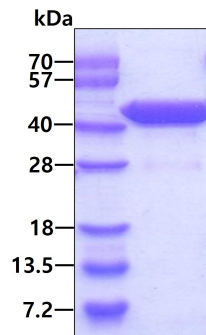
## General References

Wu Y.H., et al. (2008) Structure 16:1714-1723

Auld, D.S. et al. (2008) Cell. Mol. Life Sci. 65: 3961-3970.

## DATA

### SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.