

PTGR2 recombinant protein

PTGR2, 1-351aa, Human, His tag, E Coli

CATALOG # AAA48787	HOST E Coli	APPLICATIONS SDS-Page
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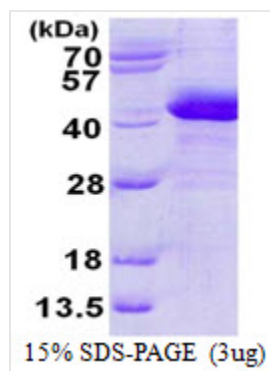
PRODUCT SYNONYMS

PTGR2; 1-351aa; Human; His tag; E Coli; Prostaglandin reductase 2; PGR2; ZADH1; PTGR2 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	> 90% by SDS-PAGE
Form/Format	Liquid. In 20 mM Tris-HCl Buffer, pH8.0, 10% glycerol, 1mM DTT, 50mM NaCl
Concentration	1mg/ml (determined by Bradford assay) (varies by lot)
Sequence	MGSSHHHHH SSGLVPRGSH MGSIMVQRV VLNSRPGKNG NPVAENFRME EVYLPDNINE GQVQVRTLTL SVDPYMRCRM NEDTGTDYIT PWQLSQVVDG GGIGIIEESK HTNLTKGDFV TSFYWPWQTK VILDGNSLEK VDPQLVDGHL SYFLGAIGMP GLTSLIGIQE KGHITAGSNK TMVVSAGAAGA CGSVAGQIGH FLGCSRVTGI CGTHEKCILL TSELGFDAAI NYKKDNVAEQ LRESCPAGVD VYFDNVGGNI SDTVISQMNE NSHILCGQI SQYNKDVYP PPLSPAIEAI QKERNITRER FLVLNYKDKF EPGILQLSQW FKEGKLIKIE TVINGLENMG AAFQSMMTGG NIGKQIVCIS EEISL
Sequence Length	1-351
Applicable Applications for PTGR2 recombinant protein	SDS-PAGE
Antigen Species	Human
Tag Information	His-tag
Preparation and Storage	Can be stored at 2-8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Avoid repeated freezing and thawing cycles.

IMAGES



SDS-PAGE

ADDITIONAL INFORMATION

Related Product Information for PTGR2 recombinant protein	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.
Product Categories/Family for PTGR2 recombinant protein	Oxidation & Reduction
References	Wu Y.H., et al. (2008) Structure 16:1714-1723; Auld, D.S. et al. (2008) Cell. Mol. Life Sci. 65: 3961-3970.

NCBI AND UNIPROT INFORMATION

NCBI GI #	22748929
NCBI GeneID	145482
NCBI Accession #	NP_689657
NCBI GenBank Nucleotide #	NM_152444.2
UniProt Accession #	Q8N8N7 ; Q3L8A4 ; Q6MZH8
Molecular Weight	41.1 kDa (375aa), confirmed by MALDI-TOF
NCBI Official Full Name	prostaglandin reductase 2
NCBI Official Synonym Full Names	prostaglandin reductase 2
NCBI Official Symbol	PTGR2
NCBI Official Synonym Symbols	PGR2; ZADH1; HEL-S-298
NCBI Protein Information	prostaglandin reductase 2
UniProt Protein Name	Prostaglandin reductase 2
UniProt Gene Name	PTGR2
UniProt Synonym Gene Names	ZADH1; PRG-2

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.