

Recombinant Human PTGR2, His-tagged

Cat. No. PTGR2-15845H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTGR2 protein, fused to His tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-351aa
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.
Molecular Mass	41.1 kDa (375aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSHMIVQRV VLNSRPGKNG NPVAENFRME EVYLPDNINE GQVQVRTLYL SVDPYMRCRM NEDTGTDYIT PWQLSQVVDG GGIGIIEESK HTNLTKGDFV TSFYWPWQTK VILDGNSLEK VDPQLVDGHL SYFLGAIGMP GLTSLIGIQE KGHITAGSNKTMVVSGAAGA CGSVAGQIGH FLGCSRVVGI CGTHEKCILL TSELGFDAAI NYKKDNVAEQ LRESCPAGVD VYFDNVGGNI SDTVISQMNE NSHIILCGQI SQYNKDVPYP PPLSPAIEAI QKERNITRER FLVLNYKDKF EPGILQLSQW FKEGKLKIKE TVINGLENMG

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	AAFQSMMTGGNIGKQIVCIS EEISL
Purity	>90% by SDS - PAGE
Applications	SDS-PAGE
Storage	Can be stored at 4°C short term. For long term storage, aliquot and store at at -20°C or -70°C. Avoid repeated freezing and thawing cycles.
Concentration	1mg/ml (determined by Bradford assay)
GENE INFORMATION	
Gene Name	PTGR2 prostaglandin reductase 2 [Homo sapiens]
Official Symbol	PTGR2
Synonyms	PTGR2; prostaglandin reductase 2; ZADH1, zinc binding alcohol dehydrogenase domain containing 1; FLJ39091; PRG-2; 15-oxoprostaglandin 13-reductase; 15-oxoprostaglandin-delta13-reductase; zinc binding alcohol dehydrogenase, domain containing 1; zinc-binding alcohol dehydrogenase domain-containing protein 1; PGR2; ZADH1; FLJ99229; DKFZp686P10120;
Gene ID	145482
mRNA Refseq	NM_152444
Protein Refseq	NP_689657
MIM	608642

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UniProt ID	Q8N8N7
Chromosome Location	14q24.1-q24.2
Function	15-oxoprostaglandin 13-oxidase activity; nucleotide binding; oxidoreductase activity; NOT zinc ion binding;

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