

Recombinant Full Length Human Prostaglandin Reductase 1 / PTGR1, His-tagged

Cat. No. PTGR1-2520H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human PTGR1 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	1-329aa
Description	PTGR1 belongs to the NADP-dependent oxidoreductase L4BD family. This enzyme catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4. This is an initial and key step of metabolic inactivation of leukotriene B4. It is highly expressed in the kidney, liver, and intestine but not in leukocytes.
Form	Liquid. In 20 mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT, 200mM NaCl.
Molecular Mass	38.6 kDa (354aa), confirmed by MALDI-TOF
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSEFMVRTK TWTLKKHFVG YPTNSDFELK TAEPLPLKNG EVLLEALFLT VDPYMRVAAK RLKEGDTMMG QQVAKVVESK NVALPKGTIV LASPGWTTTHS ISDGKDLEKL LTEWPDTIPL SLALGTVGMP GLTAYFGLLE ICGVKGGETV MVNAAAGAVG SVVGQIAKLK GCKVVGAVGS DEKVAYLQKL GFDVVFNYKT VESLEETLKK ASPDGYDCYF DNVGGEFSNT

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VIGQMKKFGR IAICGAISTY NRTGPLPPGP PPEIVYQEL RMEAFVVYRW
QGDARQKALK DLLKWVLEGK IQYKEYIIEG FENMPAAFMT MLKGDNLGKT IVKA

Purity >90% by SDS - PAGE

Applications SDS-PAGE

Storage Can be stored at 4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

Concentration 0.5 mg/ml (determined by Bradford assay)

GENE INFORMATION

Gene Name [PTGR1 prostaglandin reductase 1 \[Homo sapiens \]](#)

Official Symbol PTGR1

Synonyms PTGR1; prostaglandin reductase 1; leukotriene B4 12 hydroxydehydrogenase , LTB4DH; ZADH3; zinc binding alcohol dehydrogenase domain containing 3; PRG-1; 15-oxoprostaglandin 13-reductase; leukotriene B4 12-hydroxydehydrogenase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; PGR1; LTB4DH; FLJ99229; MGC34943;

Gene ID [22949](#)

mRNA Refseq [NM_001146108](#)

Protein Refseq [NP_001139580](#)

MIM [601274](#)

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UniProt ID	Q14914
Chromosome Location	9q32
Function	15-oxoprostaglandin 13-oxidase activity; 2-alkenal reductase [NAD(P)] activity; alcohol dehydrogenase (NAD) activity; nucleotide binding; oxidoreductase activity; zinc ion binding;

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