

Recombinant human PTGR1 protein

Catalog Number: ATGP1635

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-329aa

UniProt No.

Q14914

NCBI Accession No.

NP_036344

Alternative Names

prostaglandin reductase 1, LTB4DH, PGR1, ZADH3

PRODUCT SPECIFICATION

Molecular Weight

38.6 kDa (354aa) confirmed by MALDI-TOF

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 7.5) containing 10% glycerol, 1mM DTT, 200mM 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

Description

PTGR1, also known as LTB4DH, 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. Recombinant human PTGR1 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 MGSEFMVRTK TWTLKKHFVG YPTNSDFELK TAEPLPLKNG EVLLEALFLT VDPYMRVAAK
RLKEGDTMMG QQVAKVVESK NVALPKGTIV LASPGWTTTHS ISDGKDLEKL LTEWPDTIPL SLALGTVGMP GLTAYFGLLE
ICGVKGGETV MVNAAAGAVG SVVGQIAKLK GCKVVGAVGS DEKVAYLQKL GFDVVFNYKT VESLEETLKK ASPDGYDCYF
DNVGGFEFSNT VIGQMKKFGR IAICGAISTY NRTGPLPPGP PPEIVYQEL RMEAFVVYRW QGDARQKALK DLLKWWLEGK
IQYKEYIIIEG FENMPAAFMG MLKGDNLGKT IVKA

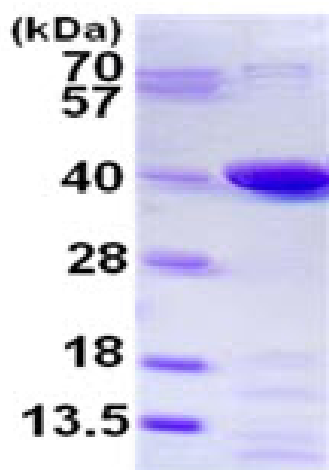
General References

Yokomizo T., et al. (1996) J. Biol. Chem. 271:2844-2850

Tai, H.H., et al. (2002). Prostaglandins Other Lipid Mediat. 68-69: 483-493.

DATA

SDS-PAGE



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

15% SDS-PAGE (3ug)