
Product Data Sheet

Product Name: PTGR1 Human

Cat. No.: GP22197

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prostaglandin reductase 1; PRG-1; 15-oxoprostaglandin 13-reductase; NADP-dependent leukotriene B4 12-hydroxydehydrogenase; PTGR1; LTB4DH; PGR1; ZADH3.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSEFMVRTK TWTLKKHFVG YPTNSDFELK TALPPLKNG EVLLEALFLT VDPYMRVAAK RLKEGDTMMG QQVAKVVESK NVALPKGTIV LASPGWTTTHS ISDGKDLEKL LTEWPDTIPL SLALGTVGMP GLTAYFGLLE ICGVKGETV MVNAAAGAVG SVVGQIAKLK GCKVVGAVGS DEKVAYLQKL GFDVVFNYKT VESLEETLKK ASPDGYDCYF DNVGGFEFSNT VIGQMKKFGR IAICGAISTY NRTGPLPPGP PPEIVYQEL RMEAFVVYRW QGDARQKALK DLLKWVLEGK IQYKEYIIEG FENMPAAFVG MLKGDNLGKT IVKA.		
Formulation	The PTGR1 solution (0.5mg/ml) contains 20mM Tris-HCl buffer, pH7.5, 10% glycerol, 1mM DTT and 200mM NaCl.		

Introduction

Prostaglandin Reductase 1 (PTGR1) is a member of the NADP-dependent oxidoreductase L4BD family. PTGR1 catalyzes the conversion of leukotriene B4 into its biologically less active metabolite, 12-oxo-leukotriene B4, thus being a primary step of metabolic inactivation of leukotriene B4. PTGR1 is highly expressed in the kidney, liver, and intestine but not in leukocytes.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Caution: Product has not been fully validated for medical applications. For research use only.

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Background

PTGR1 Human Recombinant produced in E. coli is a single polypeptide chain containing 354 amino acids (1-329) and having a molecular mass of 38.6kDa. PTGR1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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