
Product Data Sheet

Product Name: PTGR2 Human

Cat. No.: GP22198

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prostaglandin reductase 2; PRG-2; 15-oxoprostaglandin 13-reductase; Zinc-binding alcohol dehydrogenase domain-containing protein 1; PTGR2; ZADH1; PGR2.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGS HMIVQRV VLNSRPGKNG NPVAENFRME EVYLPDNINE GQVQVRTLYL SVDPYMRCRM NEDTGTDYIT PWQLSQVVDG GGIGIIEESK HTNLTKGDFV TSFYWPWQTK VILDGNSLEK VDPQLVDGHL SYFLGAIGMP GLTSLIGIQE KGHITAGSNK TMVVSGAAGA CGSVAGQIGH FLGCSRVVGI CGTHEKCILL TSELGFDAAI NYKKDNVAEQ LRESCPAGVD VYFDNVGGNI SDTVISQMNE NSHIILCGQI SQYNKDVPYP PPLSPAIEAI QKERNITRER FLVLNYKDKF EPGILQLSQW FKEGKLIKIKE TVINGLENMG AAFQSMMTGG NIGKQIVCIS EEISL.		
Formulation	The PTGR2 solution (1mg/ml) contains 20mM Tris-HCl buffer, pH8.0, 10% glycerol, 1mM DTT and 50mM NaCl.		

Introduction

Prostaglandin Reductase 2 (PTGR2) is a member of the medium-chain dehydrogenase/reductase superfamily. PTGR2 is an enzyme involved in the metabolism of prostaglandins. PTGR2 catalyzes an NADPH-dependent reduction of the conjugated alpha, beta-unsaturated double bond of 15-keto-PGE(2), which is a fundamental step in terminal inactivation of prostaglandins and suppression of PPARgamma-mediated adipocyte differentiation. PTGR2 may also be involved in controlling activation of the peroxisome proliferator-activated receptor.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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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.

Background

PTGR2 Human Recombinant produced in E.coli is a single, non-glycosylated polypeptide chain containing 375 amino acids (1-351) and having a molecular mass of 41.1kDa. PTGR2 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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