
Product Data Sheet

Product Name: PTGES2 Human
 Cat. No.: GP22195
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Prostaglandin E synthase 2; Microsomal prostaglandin E synthase 2; mPGES-2; PTGES2; C9orf15; PGES2; GBF1.		
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MKAVNEQGKE VTEFGNKYWL MLNEKEAQQV YGGKEARTEE MKWRQWADDW LVHLISPNVY RTPTEALASF DYIVREGKFG AVEGAVAKYM GAAAMYLSK RLKSRHRLQD NVREDLYEAA DKWVAAVGKD RPFMGGQKPN LADLAVYGVL RVMEGLDAFD DLMQHITHIQP WYLRVERAIT EASPAH.		
Formulation	PTGES2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 2mM DTT and 0.2M NaCl.		

Introduction

PTGES2 is a membrane-associated prostaglandin E synthase, which catalyzes the conversion of prostaglandin H₂ to prostaglandin E₂. Additionally, PTGES2 activates the transcription regulated by a gamma-INF-activated transcription element. PTGES2 is widely expressed- in the heart, including apex, inter-ventricular septum, both atria and ventricles, but not in the aorta. PTGES2 is also expressed in fetal heart. PTGES2 is detected in various regions of the brain: cerebellum; occipital, frontal and parietal lobes. It is also expressed in the lymph nodes, skeletal muscle, kidney and trachea, but not in the thymus or lung. PTGES2 is overexpressed in colorectal cancer.

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.

Background

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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PTGES2 produced in E.Coli is a single, non-glycosylated polypeptide chain containing 206 amino acids (1-186 a.a.) and having a molecular mass of 23.5kDa. PTGES2 is fused to a 20 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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