

PTGES2 Human

Description: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.

Catalog #:ENPS-143

For research use only.

Synonyms:Prostaglandin E synthase 2, Microsomal prostaglandin E synthase 2, mPGES-2, PTGES2, C9orf15, PGES2, GBF1.

Source:Escherichia Coli.

Physical Appearance:Sterile Filtered colorless solution.

Amino Acid Sequence:MGSSHHHHHH SSGLVPRGSH MKAVNEQGKE VTEFGNKYWL
MLNEKEAQV YGGKEARTEE MKWRQWADDW LVHLISPNVY RTPTEALASF DYIVREGKFG
AVEGAVAKYM GAAAMYLSK RLKSRHRLQD NVREDLYEAA DKWVAAVGKD RPFMGGQKPN
LADLAVYGV LRVMEGLDAFD DLMQHTHIQP WYLRVERAIT EASPAH.

Purity:Greater than 95.0% as determined by SDS-PAGE.

Formulation:

PTGES2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 2mM DTT and 0.2M NaCl.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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-interferon-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.

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