

## 32-2763: PTGES2 Recombinant Protein

**Alternative Name :** Prostaglandin E synthase 2, Microsomal prostaglandin E synthase 2, mPGES-2, PTGES2, C9orf15, PGES2, GBF1.

### Description

Source : Escherichia Coli. 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. 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.

### Product Info

**Amount :** 20 µg  
**Purification :** Greater than 95.0% as determined by SDS-PAGE.  
**Content :** PTGES2 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 20% glycerol, 2mM DTT and 0.2M NaCl.  
**Storage condition :** 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.  
**Amino Acid :** MGSSHHHHHH SSSLVPRGSH MKAVNEQGKE VTEFGNKYWL MLNEKEAQQV YGKKEARTEE  
MKWRQWADDW LVHLISPNVY RTPTEALASF DYIVREGKFG AVEGAVAKYM GAAAMYLISSK  
RLKSRHRLQD NVREDLYEAA DKWVAAVGKD RPFMGGQKPN LADLAVYGVV RVMEGLDAFD  
DLMQHTHIQP WYLRVERAIT EASPAH.