

Recombinant Human PTGES2, His-tagged

Cat. No. PTGES2-30326TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant full length Human PTGES2 with an N terminal His tag; 206 amino acids with the tag; predicted mwt: 23.5 kDa.
Species	Human
Source	E.coli
ProteinLength	206 amino acids
Description	The protein encoded by this gene is a membrane-associated prostaglandin E synthase, which catalyzes the conversion of prostaglandin H2 to prostaglandin E2. This protein also has been shown to activate the transcription regulated by a gamma-interferon-activated transcription element (GATE). Multiple transcript variants have been found for this gene.
Conjugation	HIS
Molecular Weight	23.500kDa inclusive of tags
Tissue specificity	Widely expressed. Expressed in the heart, including apex, inter-ventricular septum, both atria and ventricles, but not in the aorta. Also expressed in fetal heart. Detected in various regions of the brain: cerebellum; occipital, frontal and parietal lobes
Form	Liquid

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Purity	>95% by SDS-PAGE
Storage buffer	Preservative: None Constituents: 20% Glycerol, 0.2M Sodium chloride, 20mM Tris HCl, 2mM DTT, pH 8.0
Storage	Store at +4°C short term (1-2 weeks). Aliquot and store at -20°C or -80°C. Avoid repeated freeze / thaw cycles.
Sequences of amino acids	MGSSHHHHHSSGLVPRGSHMKAVNEQGKEVTEFGNKYWLMLNEKEAQQVYGG KEARTEEMKWRQWADDWLVLISPNVYRTPTEALASFDYIVREGKFGAVEGAVAKY MGAAAMYLIKRLKSRHRLQDNVREDLYEAADKWVAAVGKDRPFMGGQKPNLADL AVYGVLRVMEGLDAFDDLMQHTHIQPWYLRVERAITEASPAH
Sequence Similarities	Belongs to the GST superfamily. Contains 1 glutaredoxin domain. Contains 1 GST C-terminal domain.

GENE INFORMATION

Gene Name	PTGES2 prostaglandin E synthase 2 [Homo sapiens]
Official Symbol	PTGES2
Synonyms	PTGES2; prostaglandin E synthase 2; C9orf15, chromosome 9 open reading frame 15; FLJ14038;
Gene ID	80142
mRNA Refseq	NM_025072
Protein Refseq	NP_079348

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MIM	608152
Uniprot ID	Q9H7Z7
Chromosome Location	9q34.12
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Eicosanoid Synthesis, organism-specific biosystem; IFN-gamma pathway, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;
Function	DNA binding; electron carrier activity; isomerase activity; prostaglandin-E synthase activity; protein disulfide oxidoreductase activity;

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