

Recombinant Full Length Human PTGES protein, MYC/DDK-tagged

Cat. No. PTGES-32H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTGES fused with MYC/DDK tag at C-terminal was expressed in HEK293.
Species	Human
Source	HEK293
ProteinLength	1-152 a.a.
Description	The protein encoded by this gene is a glutathione-dependent prostaglandin E synthase. The expression of this gene has been shown to be induced by proinflammatory cytokine interleukin 1 beta (IL1B). Its expression can also be induced by tumor suppressor protein TP53, and may be involved in TP53 induced apoptosis. Knockout studies in mice suggest that this gene may contribute to the pathogenesis of collagen-induced arthritis and mediate acute pain during inflammatory responses.
Form	25 mM Tris.HCl, pH 7.3, 100 mM glycine, 10% glycerol.
Molecular Mass	16.9 kDa
Purity	> 80% as determined by SDS-PAGE and Coomassie blue staining
Concentration	>50 ug/mL as determined by microplate BCA method

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

GENE INFORMATION

Gene Name	PTGES prostaglandin E synthase [Homo sapiens]
Official Symbol	PTGES
Synonyms	PTGES; prostaglandin E synthase; MGST1L1; glutathione S transferase 1 like 1; MGST IV; MGST1 L1; MGST1 like 1; microsomal glutathione S transferase 1 like 1; microsomal prostaglandin E synthase 1; p53 induced gene 12; PIG12; TP53I12; tumor protein p53 inducible protein 12; MGST1-like 1; p53-induced gene 12 protein; p53-induced apoptosis protein 12; glutathione S-transferase 1-like 1; microsomal prostaglandin E synthase-1; microsomal glutathione S-transferase 1-like 1; PGES; MPGES; PP102; PP1294; MGST-IV; mPGES-1; MGST1-L1; MGC10317;
Gene ID	9536
mRNA Refseq	NM_004878
Protein Refseq	NP_004869
MIM	605172
UniProt ID	O14684
Chromosome Location	9q34.3
Pathway	Arachidonic acid metabolism, organism-specific biosystem; Arachidonic acid metabolism, conserved biosystem; Eicosanoid Synthesis, organism-specific biosystem; Metabolic pathways, organism-specific biosystem;

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Function

glutathione binding; isomerase activity; prostaglandin-E synthase activity;

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