Recombinant Human PTGS2 Protein, His-tagged

Cat. No. PTGS2-2640H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human PTGS2 Protein (Asn19-Asp589) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Asn19-Asp589
Description	Prostaglandin-endoperoxide synthase (PTGS), also known as cyclooxygenase, is the key enzyme in prostaglandin biosynthesis, and acts both as a dioxygenase and as a peroxidase. There are two isozymes of PTGS: a constitutive PTGS1 and an inducible PTGS2, which differ in their regulation of expression and tissue distribution. This gene encodes the inducible isozyme. It is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 69.1 kDa Accurate Molecular Mass: 67 kDa
Endotoxin	<1.0 EU per 1μg (determined by the LAL method).
Purity	> 90%

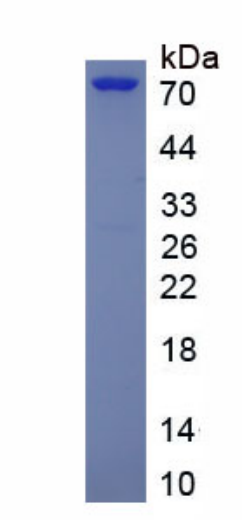
Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	PTGS2 prostaglandin-endoperoxide synthase 2 [Homo sapiens (human)]
Official Symbol	PTGS2
Synonyms	PTGS2; prostaglandin-endoperoxide synthase 2; COX2; COX-2; PHS-2; PGG/HS; PGHS-2; hCox-2; GRIPGHS; prostaglandin G/H synthase 2 PGH synthase 2 PHS II cyclooxygenase 2 cyclooxygenase 2b prostaglandin H2 synthase 2 prostaglandin-endoperoxide synthase 2 (prostaglandin G/H synthase and cyclooxygenase)

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	EC 1.14.99.1
Gene ID	5743
mRNA Refseq	NM_000963
Protein Refseq	NP_000954
MIM	600262
UniProt ID	P35354
	

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