

## Prostaglandin G/H synthase 2

Catalog No: #AP78625



Package Size: #AP78625-1 50ug #AP78625-2 100ug #AP78625-3 1mg

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## Description

Product Name	Prostaglandin G/H synthase 2
Brief Description	Recombinant Protein
Host Species	E.coli
Purification	Greater than 90% by SDS-PAGE
Species Reactivity	Rat
Immunogen Description	N-terminal
Other Names	Cox-2, Cox2, Cyclooxygenase-2, PHS II, Prostaglandin H2 synthase 2, Prostaglandin-endoperoxide synthase 2, COX-2, PGH synthase 2
Accession No.	P35355 Gene name: Ptgs2
Uniprot	P35355
GeneID	29527;
Tag Info	His
Formulation	50mM NaH <sub>2</sub> PO <sub>4</sub> , 500mM NaCl Buffer with 500mM Imidazole, 10% glycerol (pH 8.0)
Storage	Store at -20°C. (Avoid repeated freezing and thawing.) Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.

## Background

Converts arachidonate to prostaglandin H<sub>2</sub> (PGH<sub>2</sub>), a committed step in prostanoid synthesis. Constitutively expressed in some tissues in physiological conditions, such as the endothelium, kidney and brain, and in pathological conditions, such as in cancer. PTGS2 is responsible for production of inflammatory prostaglandins. Up-regulation of PTGS2 is also associated with increased cell adhesion, phenotypic changes, resistance to apoptosis and tumor angiogenesis. In cancer cells, PTGS2 is a key step in the production of prostaglandin E<sub>2</sub> (PGE<sub>2</sub>), which plays important roles in modulating motility, proliferation and resistance to apoptosis.

## References

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Note: This product is for in vitro research use only