Recombinant Human COX-2 Protein

Catalog No.: RP02992LQ

Sequence Information

Species
Human

Gene ID
5743

Swiss Prot
P35354

Tags
60-85 kDa

Synonyms
PTGS2, COX2,Prostaglandin G/H synthase 2,Cyclooxygenase-2, COX-2, PHS II

Product Information

Source
Baculovirus-Insect Cells

Purification
≥ 90 % as determined by SDS-PAGE.

Calculated MW **Observed MW**
国内[In Stock] 国外[3 to 5 weekdays] 68.5 kDa

Endotoxin
< 1 EU/μg of the protein by LAL method.

Formulation
Supplied as sterile 50 mM Tris, 100 mM NaCl, 10% Glycerol, pH 8.0.

Reconstitution

Background

COX-2, is s component of Prostaglandin-endoperoxide synthase (PTGS). 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. PTGS2 is overexpressed in many cancers. The overexpression of PTGS2 along with increased angiogenesis and GLUT-1 expression is significantly associated with gallbladder carcinomas. Furthermore the product of COX-2, PGH2 is converted by prostaglandin E2 synthase into PGE2, which in turn can stimulate cancer progression. Consequently inhibiting COX-2 may have benefit in the prevention and treatment of these types of cancer. PTGS2 is regulated by specific stimulatory events, suggesting that it is responsible for the prostanoid biosynthesis involved in inflammation and mitogenesis. It mediates the formation of prostaglandins from arachidonate and may have a role as a major mediator of inflammation and/or a role for prostanoid signaling in activity-dependent plasticity.

Basic Information

Description
Recombinant Human COX-2 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Met 1-Leu 604) of Human COX-2 fused with His tag at the C-terminus.

Activity
Measured by its ability to convert arachidonic acid to prostaglandin H2. The specific activity is >600 pmols/min/μg.

Shipping
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -70℃

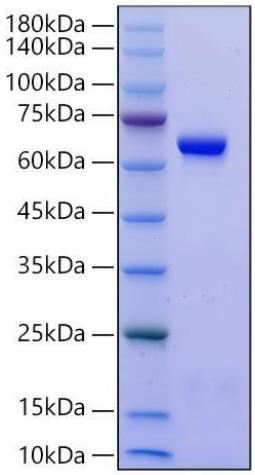
Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

Contact

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Please visit http://abclonal.com for a complete listing of recommended products.

Validation Data



Recombinant Human COX-2 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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