ALPHA DIAGNOSTIC INTERNATIONAL

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Product Specification Sheet

Murine CYCLOOXYGENASE-1 (PGHS-1; PHS-1; Prostaglandin-endoperoxide synthase-1)

Cat # COX11-D Murine COX1 CDNA Probe **SIZE**: 10 ul **FORM**: Soln

Product Source

Two isoforms of Prostaglandin H synthase are well characterized, namely COX1 (also called PGHS-1; PHS-1; Prostaglandin-endoperoxide synthase-1) and COX2 (also called PGHS-2; Prostaglandin-endoproxide synthase-2 and PHSII). Both forms of COX proteins are membrane associated heme proteins containing cyclooxygenase and peroxidase activities. These enzymes are targets of NSAID (Non steroidal anti inflammatory drugs) such as aspirin.

COX1 is composed of 70KD subunits (1) and is constitutively expressed although significant enhancement of COX1 expression can be induced in some cell types. High expression is observed in gastrointestinal tissues.

Size of the cDNA 1.7 Kb

Quantity and Concentration 10 ug in 10 ul TE buffer

Applications

This cDNA can be used for the synthesis, by standard random priming or nick translation techniques, of radiolabeled probes for investigations of pCox-1 gene expression. This hybridizes to Cox-1 mRNA on northern blot 2.7-3.0 Kb under high stringency conditions. In low stringency conditions it may hybridize with Cox-2.

Form & Storage of cDNA

At least 1 year at –70oC. Avoid repeated freeze and thaw.

References:

(1.) Casey ML et al (1988) J. Biol. Chem. 263, 7846
(2.) Wy KW et al (1988) J. Biol. Chem. 263, 19043
(3.) Bailey JM et al (1988) BBRC 157, 1159
(4.) Masferrer JL et al (1990) J Clin. Invest. 86, 1375
(5.) DeWitt DL et al (1991) Biochim. Biophys. Acta 1083, 121

*This Product is for *in vitro* research use only.

Related materials available from ADI

Anti-Cox-1 and Cox-2 antibodies and positive controls

Western Blot recycling kit (Use the same blot to probe with multiple antibodies COX11, COX21, etc.) **recycle blot at room temp in 5-10 min**; No mercaptoethanol or heating required).

COX11-D 71217A

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