

# Cyclooxygenase 1 Inhibitor Screening Fluorometric Kit

**Cat. No.** Kit-0256    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Cyclooxygenase 1 (COX1) Inhibitor Screening Kit (Fluorometric) offers a rapid, simple, sensitive, and reliable test suitable for high-throughput screening of COX-1 inhibitors. The assay is based on the fluorometric detection of Prostaglandin G2, the intermediate product generated by the COX enzyme.
<b>Size</b>	100 tests
<b>Description</b>	Cyclooxygenase (COX), also known as prostaglandin-endoperoxide synthase (PTGS, EC 1.14.99.1), is an enzyme that is responsible for the formation of important biological mediators called prostanoids, including prostaglandins, prostacyclin and thromboxane. COX is the central enzyme in the biosynthetic pathway to prostanoids from arachidonic acid. There are two known isoenzymes: COX-1 and COX-2. COX-1 is constitutively expressed in many tissues and is the predominant form in gastric mucosa and in kidney. COX-2 is not expressed under normal conditions in most cells, but elevated levels are found during inflammation. Pharmacological inhibition of COX by nonsteroidal anti-inflammatory drugs (NSAID) can provide relief from the symptoms of inflammation and pain.
<b>Applications</b>	Inhibition Assay more details
<b>Target Species</b>	Reacts with: Species independent
<b>Storage</b>	Store at -20°C.
<b>Kit Components</b>	Components: 100 tests; Arachidonic Acid: 1 x 50µl COX Assay Buffer: 1 x 25ml; COX

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Cofactor (in DMSO): 1 x 20 $\mu$  COX Probe (in DMSO): 1 x 200 $\mu$  COX-1, Ovine: 1 vial;  
NaOH: 1 x 500 $\mu$  SC560, COX-1 inhibitor (in DMSO): 1 x 100 $\mu$

**Detection method** Fluorescent

**Compatible Sample Types** Inhibitor compounds

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