CREATIVE BIOMART®
Assay Kit

Cyclooxygenase 1 Inhibitor Screening Fluorometric Kit

Product Information

Cat.No. Kit-0256

Product Overview

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.

Size

100 tests

Description

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.

Applications

Inhibition Assaymore details

Target Species

Reacts with: Species independent

Storage

Store at -20°C.

Kit Components

Components: 100 tests; Arachidonic Acid: 1 x 50µl; COX Assay Buffer: 1 x 25ml; COX Cofactor (in

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

Detection method Fluorescent

Compatible Sample Types

Inhibitor compounds

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