

Cyclooxygenase Activity Luminometric Assay Kit

Product Information

Cat.No.

Kit-0254

Product Overview

The Cyclooxygenase (COX) Activity Assay Kit (Luminometric) is a non-radioactive COX activity assay. This kit allows user to easily evaluate COX I and COX II inhibitors in a convenient 96-well plate based assay with COX Activity Assay Kit (Luminometric) uses a specific chemiluminescent substrate to detect the peroxidative activity of COX enzymes. After inhibition by NSAIDs, the direct residual activity of COX is measured by addition of a proprietary luminescent substrate and arachidonic acid. Light emission starts immediately and is directly proportional to the COX activity in the sample. The chemiluminescent signal is measured over 5 seconds.

Size

1 x 96 tests

Description

COX (cyclooxygenase, also known as Prostaglandin G/H synthase) is a membrane-bound enzyme responsible for the oxidation of arachidonic acid to Prostaglandin G₂ (PGG₂) and the subsequent reduction of PGG₂ to PGH₂. These reactions are the first steps in the formation of a variety of prostanoids. COX has been shown to be expressed in at least two different isoforms: a constitutively expressed form, COX1, and an inducible form, COX2. COX1 is thought to regulate a number of "housekeeping" functions such as vascular hemostasis and renal blood flow. Inflammation mediators such as growth factors, cytokines and endotoxin induce COX2 expression in a number of cellular systems.

Applications

Functional Studies more details

Kit Components

Components: 1 x 96 tests; COX Substrate: 1 x 10ml; Ibuprofen: 1 x 2ml; Meloxicam: 1 x 2ml; Plate Sealer: 2 units; White 96 well microtiter plate: 1 unit



CREATIVE BIOMART[®]
Assay Kit

Cyclooxygenase Activity Luminometric Assay Kit

Sensitivity

0.147 U/ml

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