CREATIVE BIOMART®
Assay Kit

Adenosine Fluorometric Assay Kit

Product Information

Cat

Kit-0050

Common Name

Adenosine

Cat.No. Kit-0050

Product Overview

Rapid & convenient
Detection range: 2-80 pmol

Description

Adenosine, a purine nucleoside, is present throughout the body. It plays an important role in energy transfer via the formation of ATP, ADP and AMP and in signal transduction via the formation of cAMP. Adenosine mediates its effects directly via adenosine receptors A1, A2A, A2B and A3. It regulates myocardial oxygen consumption and coronary blood flow, exerts anti-inflammatory effects throughout the body and also regulates the Renin-Angiotensin system. It also plays a role in tissue damage and repair, and cell death. Plasma adenosine levels are increased in patients with ischemic and non-ischemic heart failure. In Adenosine Assay, adenosine is measured using adenosine deaminase followed by a multi-step enzymatic approach resulting in the generation of an intermediate that reacts with the Adenosine Probe with the formation of a fluorescent product. The fluorescent product is measured at Ex/Em = 535/587 nm. Detection range: 2-80 pmol.

Applications

Measurement of Adenosine in plasma and urine.

Usage

For Research Use Only! Not For Use in Humans.

Storage

-20°C

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CREATIVE BIOMART®
Assay Kit

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Size

100 assays

Kit Components

- Adenosine Assay Buffer
- Urine Clarifier
- Adenosine Detector
- Adenosine Convertor
- Adenosine Developer
- Adenosine Standard (10 mM)
- Adenosine Probe (DMSO)

Detection method Fluorescence (Ex/Em = 535/587 nm)

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