

# Adenosine Fluorometric Assay Kit

**Cat. No.** Kit-0050    **Lot. No.** (See product label)

## SPECIFICATION

<b>Product Overview</b>	Rapid & convenient Detection range: 2-80 pmol
<b>Description</b>	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.
<b>Applications</b>	Measurement of Adenosine in plasma and urine.
<b>Usage</b>	For Research Use Only! Not For Use in Humans.
<b>Storage</b>	-20°C
<b>Size</b>	100 assays
<b>Kit Components</b>	• Adenosine Assay Buffer

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- Urine Clarifier
- Adenosine Detector
- Adenosine Converter
- Adenosine Developer
- Adenosine Standard (10 mM)
- Adenosine Probe (DMSO)

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