

Adenosine Fluorometric Assay Kit

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

SPECIFICATION

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
Size	100 assays
Kit Components	• Adenosine Assay Buffer

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- 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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