CREATIVE BIOMART®
Assay Kit

ATPase/GTPase Assay Kit

Product Information

Cat.No. Kit-0120

Product Overview

ATPase/GTPase Assay Kit is a highly sensitive method for determining ATPase/GTPase activities.

Description

ATPases and GTPases catalyze the decomposition of ATP or GTP into ADP or GDP and free phosphate ion. These enzymes play key roles in transport, signal transduction, protein biosynthesis and cell differentiation. ATPase/GTPase Assay Kit offers a highly sensitive method for determining ATPase/GTPase activities in a microplate format. Its proprietary formulation features a single reagent for accurate determination of enzyme activity in 30 min at room temperature. The improved malachite green reagent forms a stable dark green color with liberated phosphate, which is measured on a plate reader (600 - 660 nm).

Applications

Determination of ATPase and GTPase activity.Drug Discovery: high-throughput screen for ATPase or GTPase inhibitors.

Usage

For research use only (RUO)

Storage

The reagents and standard are stable for one year when stored at 4°C.

Kit Components

Reagent 50 mLAssay Buffer 10 mLStandard: 1 mM phosphate 1mL

Detection method Colorimetric

Features & Benefits

High sensitivity: detection of 0.007 U/L ATPase and GTPase activity.Fast and convenient: single reagent, homogeneous "mix-and-measure" assay allows quantitation of enzyme activity within 30 minutes.Robust and amenable to HTS: detection at 620nm greatly reduces potential interference by

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

ATPase/GTPase Assay Kit

colored compounds. Z'' factors of >0.7 are observed in 96-well and 384-well plates. Can be readily automated on HTS liquid handling systems.

Tel: 1-631-559-9269 1-516-512-3133

Email:info@creative-biomart.org

Fax:1-631-938-8127

45-1 Ramsey Road, Shirley, NY 11967, USA