CREATIVE BIOMART®
Assay Kit

Luminescent ATP Detection Assay Kit

Product Information

Product Overview

ATP is the most important source of energy in the cell and plays an important role in various intracellular processes. Abnormal changes in ATP levels are often associated with impaired cell functions, so it is important to detect ATP levels.
Luminescent ATP Detection Assay Kit is a kit that uses luciferase to detect ATP content in samples. The detection principle is that firefly luciferase can catalyze the substrate D-luciferin to emit light in the presence of ATP. When both firefly luciferase and D-luciferin are in excess, the luminescence signal produced is proportional to the concentration of ATP.
This kit can measure the amount of ATP within a solution, cell, or tissue. For cell or tissue samples, the kit provides a ready-to-use lysis buffer that can be used for ATP detection after simple lysis without the need for cumbersome steps such as trichloroacetic acid (TCA) or perchloric acid extraction or boiling after lysis. At the same time, the kit has high sensitivity and good linearity in the range of 1 nM-10 μM. The kit has been optimized to have a very stable luminescence signal for ATP detection, which can be stable for up to 30 minutes. In addition, the samples used in this kit can be used simultaneously for protein concentration determination, SDS-PAGE, and Western blot.

Size

200T

Storage

Store the kit at -20°C, stable for 6 months. Or store the kit at -80°C, stable for 1 year. ATP Detection Reagent should be stored at
-20°C away from light.

Shipping

Ice pack

Kit Components

ATP Detection Reagent: 4 x 500 μL
ATP Detection Diluent: 20 mL

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ATP Standard (0.5 mM): 100 µL
ATP Lysis Buffer: 100 mL

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