

Extracellular Acidification Rate (ECAR) Assay Kit | ECAR assay kit

Extracellular Acidification Rate (ECAR) Fluorometric Assay Kit

CATALOG #
AAA179636

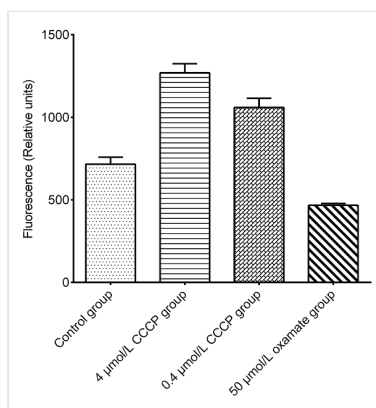
PRODUCT SYNONYMS

Extracellular Acidification Rate (ECAR); Extracellular Acidification Rate (ECAR) Fluorometric Assay Kit; ECAR assay kit

PRODUCT SPECIFICATIONS

Assay Type	Quantitative
Detection Type	Fluorescence method
Detection Instrument	Fluorescence Microplate reader
Research Area	Glycolysis and Lipid Metabolism
Test Principle	The extracellular acidification rate (ECAR) refers to the effect of acidic substances released by cells during metabolism on the extracellular environment, which is an important indicator to evaluate the energy metabolism and growth status of cells. During cellular metabolism, energy generation requires either aerobic or anaerobic respiration. When cells undergo anaerobic respiration, a large number of acidic substances are produced, which are pumped by the cell membrane into the extracellular environment, leading to the acidification of the extracellular environment. Therefore, ECAR is an important indicator to evaluate the acidic substances produced by anaerobic respiration during cell metabolism, and its change can reflect the degree of cell metabolism. The kit uses a specific probe (Ex/Em: 490 nm/535 nm) that changes the fluorescence value when the pH of the extracellular environment changes. The acidified extracellular environment will reduce the fluorescence value of the probe to detect the extracellular acidification rate.
Preparation and Storage	This product can be stored at -20 degree C for 12 months with shading light. Shipping: Ice bag

IMAGES



Application Data

ADDITIONAL INFORMATION

Product Categories/Family for ECAR assay kit

Cell Metabolism Assays; Glycolysis and Lipid Metabolism

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/assay-kits/extracellular-acidification-rate-ecar/179636>