abcam

Product datasheet

Alcohol dehydrogenase Assay Kit ab272518

1 Image

Overview

Product name	Alcohol dehydrogenase Assay Kit
Detection method	Colorimetric
Sample type	Cell Lysate, Tissue Lysate
Assay type	Quantitative
Range	0.4 mU/ml - 80 mU/ml
Product overview	Alcohol Dehydrogenase Assay Kit (ab272518) is a non-radioactive, colorimetric ADH assay is based on the reduction of the tetrazolium salt MTT in a NADH coupled enzymatic reaction to a reduced form of MTT which exhibits an absorption maximum at 565 nm. The increase in absorbance at 565 nm is directly proportional to the enzyme activity. **Fast and Sensitive**: Linear detection range (20 µL sample): 0.4 to 80 U/L for 30 min reaction. Detection Limit of 0.1 U/L for 120 minute reaction. **Linear detection range (20 µL sample):** 0.4 to 80 U/L for 30 min reaction. Detection Limit of 0.1 U/L for 120 minute reaction.
Tested applications	**Suitable for:** Functional Studies
Platform	Microplate

Properties

Storage instructions	Store at -20°C. Please refer to protocols.

Components	100 tests
Assay Buffer	1 x 10ml
Calibrator	1 x 1.5ml
Diaphorase	1 x 120µl
MTT Solution	1 x 1.5ml
NAD Solution	1 x 1ml

Components	100 tests
Substrate (10% Ethanol)	1 x 1ml

Relevance Alcohol dehydrogenase (Alcohol DH, ADH) (EC 1.1.1.1) is a group of seven dehydrogenase enzymes that occur in many organisms and facilitate the interconversion between alcohols and aldehydes or ketones with the reduction of NAD+ to NADH. In humans and many other animals, they serve to break down alcohols which could otherwise be toxic; in yeast and many bacteria, some alcohol dehydrogenases catalyze the opposite reaction as part of fermentation.

Cellular localization Cytoplasmic

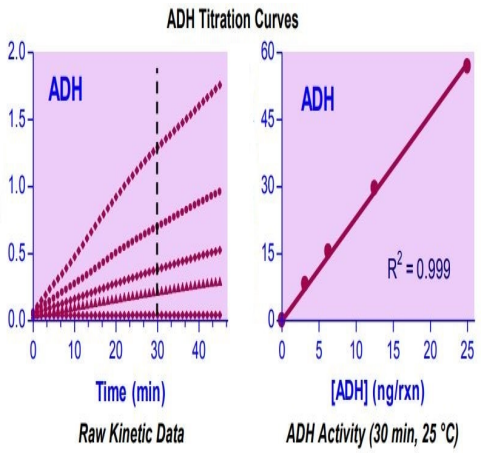
Applications

The Abpromise guarantee Our Abpromise guarantee covers the use of ab272518 in the following tested applications.

The application notes include recommended starting dilutions; optimal dilutions/concentrations should be determined by the end user.

Application	Abreviews	Notes
Functional Studies		Use at an assay dependent concentration.

Images



ADH titration curves

Typical titration curves – data provided **for demonstration purposes only**.

Example of Alcohol Dehydrogenase titration curves.

OD_{565} readings (left) and calculated activity (right).

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