Mitochondrial Aldehyde Dehydrogenase (ALDH2) Activity Assay Kit

Cat. No. Kit-0076 **Lot. No.** (See product label)

SPECIFICATION

Product Overview	The kit is used to determine mitochondrial aldehyde dehydrogenase activity (ALDH2) in a sample. The enzyme is captured within the wells of the microplate and activity is determined by following the production of NADH in the following ALDH2 catalyzed reaction:acetaldehyde + NAD+ ->acid + NADHThe generation of NADH is coupled to the 1:1 reduction of a reporter dye to yield a colored (yellow) reaction product whose concentration can be monitored by measuring the increase in absorbance at 450 nm (Dye molar extinction coefficient-37000 M-1cm-1). Kit-0076 immunocaptures in each well only native ALDH2 from the chosen sample; this removes all other enzymes, including unrelated aldehyde dehydrogenases.
Size	1 x 96 test
Applications	Functional Studies
Target Species	Reacts with: Mouse, Rat, Cow, Dog, Human
Storage	All components are shipped cold. Reagent dye, Coupler and NAD+ are shipped lyophilized. Before use rehydrate by adding 0.25 mL pure H2O to each tube and vortex each tube thoroughly to dissolve. After hydration unused amounts of these three materials should be stored at -80°C. Store all other components store at 4°C. This kit is Stable for 6 months from receipt.
Kit Components	Components 1 x 96 tests100X acetaldehyde (2.5 M) 1 x 0.25ml100X Coupler 1 x

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	0.25ml100X NAD+ 1 x 0.25ml100X Reagent Dye 1 x 0.25ml10X Blocking Buffer 1 x 6ml1X Base Buffer 1 x 24ml20X Buffer 1 x 20ml96 well microplate (12 strips) 1 unitExtraction Buffer 1 x 15ml
Detection method	Colorimetric
Compatible Sample Types	Cell culture extracts, Tissue Extracts

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