

Carboxylesterase 1 Activity Assay Kit

Cat. No. Kit-0207 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

(MS789) is a novel assay that uses a high affinity monoclonal capture antibody to selectively isolate carboxylesterase 1 (CES1) from liver tissue or cell samples. After isolation and subsequent measurement of the enzyme's functional activity, the quantity of isolated CES1 is measured in the same well by adding a second monoclonal detector antibody, which is quantified using a colorimetric label (HRP). Both reactions take place in time-dependent manners proportional to the amount of enzyme captured in each well. By combining activity and quantity measurements, the enzyme's relative specific activity can be determined. Specific activity is useful for measuring up or down regulation of activity by site-specific modification or damage, and in response to specific inhibitors.

Size

1 x 96 well plate

Applications

Functional Studies

Target Species

Reacts with: Rat, Human

Storage

Store all components at 4°C. This kit is Stable for 6 months from receipt. Unused microplate strips should be returned to the pouch containing the desiccant and resealed.

Kit Components

Components 1 x 96 tests 100X HRP Label 1 x 125µl 10X Blocking Buffer 1 x 10ml 1X Base Buffer 1 x 25ml 20X Wash Buffer 1 x 25ml 5700X 4-nitrophenol 1 x 20µl CES1 antibody precoated Microtiter plate 1 unit CES1 Detector antibody 1 x 125µl Extraction

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Buffer 1 x 15mlTMB Development Solution 1 x 12mlAll components are shipped cold.
Store all components at 4°C.

Detection method	Colorimetric
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Compatible Sample Types	Cell culture extracts, Tissue
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