CREATIVE BIOMART®
Assay Kit

Carboxylesterase 1 Activity Assay Kit

Product Information

Cat.No. Kit-0207

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 fromreceipt. Unused microplate strips should be returned to the pouch containing the desiccant and resealed.

Kit Components

Components 1 x 96 tests100X HRP Label 1 x 125µl10X Blocking Buffer 1 x 10ml1X Base Buffer 1 x 25ml20X Wash Buffer 1 x 25ml5700X 4-nitrophenol 1 x 20µlCES1 antibody precoated Microtiter plate 1 unitCES1 Detector antibody 1 x 125µlExtraction Buffer 1 x 15mlTMB Development Solution 1 x 12mlAll components are shipped cold. Store all components at 4°C.

Tel: 1-631-559-9269 1-516-512-3133
Email:info@creative-biomart.org
Fax:1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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Detection method	Colorimetric

Compatible Sample Types

Cell culture extracts, Tissue

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