CREATIVE BIOMART®
Assay Kit

TACE inhibitor screening Kit

Product Information

Cat.No. Kit-0843

Product Overview

For high-throughput screening of TACE inhibitors and can be modified to check the relative TACE activity. Inhibitor control GM6001 is included to compare the efficiency of test inhibitors. (100 assays) Simple procedureFast and convenientThe assay is sensitive, simple, and high-throughput adaptable.

Size

100 assays

Description

The TACE (tumor necrosis factor-a-converting enzyme), also called ADAM metallopeptidase domain 17 (ADAM17), is a 70-kDa enzyme that belongs to the ADAM protein family of disintegrins and metalloproteases. TACE is believed to be involved in the processing of tumor necrosis factor alpha (TNF-a) at the surface of the cell, and from within the intracellular membranes of the trans-Golgi network. This process, which is also known as "shedding", involves the cleavage and release of a soluble ectodomain from membrane-bound pro-proteins (such as pro-TNF-a), and is of known physiological importance. In TACE inhibitor screening Kit, TACE hydrolyzes the specific FRET substrate to release the quenched fluorescent group, which can be detected fluorometrically at Ex/Em = 318/449 nm. In the presence of the potent TACE inhibitor, the hydrolyzation of substrate will be impeded. The kit provides a rapid, simple, sensitive and reliable test suitable for high-throughput screening of TACE inhibitors and can be modified to check the relative TACE activity. Inhibitor Control GM6001 is included to compare the efficacy of test inhibitors.

Target Species

Mammalian

Usage

This product is furnished for LABORATORY RESEARCH USE ONLY. Not for diagnostic or therapeutic use.

Kit Components

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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Assay BufferSubstrateTACE Enzyme (20 µg)Inhibitor Control (0.1 mM GM6001)	
Detection method	Fluorescence Plate ReaderFluorometer

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