CREATIVE BIOMART®
Assay Kit

Acidic Mammalian Chitinase Inhibitor Screening Kit

Product Information

Cat.No. Kit-2104

Product Overview

Acidic Mammalian Chitinase Inhibitor Screening Kit uses Bisdionin F— a highly selective AMCase inhibitor as positive control and it provides a simple, rapid, sensitive and reliable test suitable for screening/characterizing AMCase inhibitors.

Size

100 assays

Description

Acidic Mammalian Chitinase (AMCase) belongs to the glycosyl hydrolase-18 family (EC 3.2.1.14), which is capable of hydrolyzing the β- (1, 4)-linkage between the adjacent N-acetyl glucosamine residues of chitin. AMCase is relatively abundant in the gastrointestinal tract and lung. It is highly expressed in the lungs of asthmatic patients and asthma animal models. In addition, the change in AMCase expression can be used to monitor Th-2/IL-13 mediated immune response and inflammation. Inhibition of AMCase activity has been considered as a therapeutic strategy to alleviate symptoms of allergic airway inflammation. Thus, there is a need to identify AMCase inhibitors as potential candidates to treat and/or prevent asthma.

Applications

Screening/characterizing/studying Mammalian Chitinase inhibitors/activators

Storage

Store kit at -20°C, protected from light. Briefly centrifuge small vials prior to opening. Read entire protocol before performing theassay.AMCase Assay Buffer: Warm to 37 °C before use. Store at either 4°C or -20°C.AMCase Substrate: Store at -20°C. Bring to room temperature before use.Acidic Mammalian Chitinase: Reconstitute Acidic Mammalian Chitinase in 550 μl AMCase Assay Buffer and mix thoroughly. Aliquot and store at -20°C. Avoid repeated freeze/thaw. Keep on ice while in use. Use within two months.Bisdionin F: Store at -20°C. Bring to room temperature before use.

Kit Components

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AMCase Assay Buffer: 25 mlAMCase Substrate (in DMSO): 25 µlAcidic Mammalian Chitinase (lyophilized): 1 vialBisdionin F (5 mM): 20 µl

Detection method Fluorescence (RFU= 320/445 nm)

Features & Benefits

• Simple and reliable test to screen AMCase inhibitors/activators• High-throughput compatible• Includes Inhibitor Control (Bisdionin F)

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