

MMP1 Inhibitor Screening Assay Kit (Colorimetric)

Cat. No. KITZ-054 **Lot. No.** (See product label)

SPECIFICATION

Product Overview

MMP1 Inhibitor Screening Assay Kit (Colorimetric) is a complete assay system designed to screen MMP1 inhibitors using a thiopeptide as a chromogenic substrate (Ac-PLG-[2-mercapto-4-methyl-pentanoyl]-LG-OC₂H₅). The MMP cleavage site peptide bond is replaced by a thioester bond in the thiopeptide. Hydrolysis of this bond by an MMP produces a sulfhydryl group, which reacts with DTNB to form 2-nitro-5-thiobenzoic acid, which can be detected by its absorbance at 412 nm. The assays are performed in a convenient 96-well microplate format. The kit is useful to screen inhibitors of MMP1, a potential therapeutic target. An inhibitor, MMP Inhibitor (NNGH), is also included as a prototypic control inhibitor.

Size

96Tests

Storage

Store MMP1 Enzyme at -80°C, and store the others at -20°C.

Applications

For the screening of MMP1 inhibitors

Shipping

Dry ice

Kit Components

MMP1 Enzyme (Human, Recombinant) (30.6 U/μL): 66 μL, -80°C
MMP Inhibitor (1.3mM NNGH in DMSO): 50 μL, -20°C
MMP Substrate (25 mM (16.4 mg/ml) in DMSO): 50 μL, -20°C
Colorimetric Assay Buffer: 20 mL, -20°C
96-well Clear Microplate (½ Volume): 1, RT

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**Materials Required
but Not Supplied**

Microplate reader

Pipettes or multi-channel pipettes capable of pipetting 10-100 μ L accurately. (Note: reagents can be diluted to increase the minimal pipetting volume to >10 μ L).

Ice bucket to keep reagents cold until use.

Water bath or incubator for component temperature equilibration.

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