CREATIVE BIOMART®
Assay Kit

# N'-Nicotinamide Methyltransferase (NNMT) Inhibitor Screening Assay Kit

## Product Information

**Cat.No.**

Kit-2215

**Product Overview**

N'-Nicotinamide Methyltransferase (NNMT) (E.C. 2.1.1.1) catalyzes the N-methylation of nicotinamide, pyridines, and other analogues using S-adenosyl methionine (SAM) as the donor resulting in the production of 1-methylnicotinamide (MNA). NNMT plays a significant role in the regulation of metabolic pathways and is expressed at markedly high levels in several kinds of cancers, neurodegenerative diseases, obesity and diabetes, indicating it is a potential molecular target for therapy. NNMT inhibitor screening kit utilizes SAM as the methyl group donor and nicotinamide as the substrate. NNMT methylates nicotinamide generating S-adenosylhomocysteine (SAH) and 1-methylnicotinamide. The SAH is hydrolyzed by SAH hydrolase to form homocysteine, the free thiol group of which is detected using a Thiol Detecting Probe generating enhanced fluorescence signal that can be measured at Ex/Em = 392/482 nm. In the presence of an NNMT inhibitor, the enzymatic activity is inhibited resulting in decreased fluorescence. This assay kit is a simple, sensitive, and rapid tool to screen potential inhibitors of NNMT.

**Applications**

Screening/studying/characterizing potential inhibitors of NNMT.

**Storage**

-80°C

**Shipping**

Dry Ice

**Size**

100 assays

**Kit Components**

NNMT Assay Buffer; NNMT Enzyme; S-Adenosylmethionine (SAM); Nicotinamide; Enzyme-I; Enzyme-II;

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# N'-Nicotinamide Methyltransferase (NNMT) Inhibitor Screening Assay Kit

1-Methylnicotinamide (MNA) (150 mM); Thiol Detecting Probe (DMSO); SAM Reconstitution Buffer

**Target Species**

Mammalian

**Detection method** Fluorescence (Ex/Em = 392/482 nm)

**Features & Benefits**

Rapid assay and simple protocol;
Reliable test for screening potential inhibitors of NNMT;
Includes Inhibitor Control, 1-Methylnicotinamide (MNA)

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