

## PAF Acetylhydrolase (PAF-AH) Inhibitor Screening Kit (Colorimetric)

Cat. No. Kit-2359    Lot. No. (See product label)

### SPECIFICATION

#### Product Overview

Platelet-Activating Factor (PAF or 1-O-alkyl-2-acetyl-sn-glycero-3-phosphocholine) is an important phospholipid mediator, which has diverse biological activities. PAF is synthesized and secreted by a variety of cells such as mast cells, monocytes, macrophages etc. Up-regulated PAF signaling can cause pathological inflammation and also has been found to be responsible for sepsis, shock, and traumatic injury. PAF-Acetylhydrolase (PAF-AH or 1-alkyl-2-acetyl-glycerophosphocholine esterase or Lipoprotein-associated Phospholipase A2 or Lp-PLA2) (EC 3.1.1.47) hydrolyzes PAF by removing acetyl group at the sn-2 position and converts PAF into biologically inactive form, lyso-PAF. PAF-AH has two forms: extracellular and intracellular that shares some similarities. In humans, PAF-AH deficiency leads to severe asthma, thus development of novel and specific inhibitors of PAF-AH is critical for therapeutic purposes. In PAF-AH Inhibitor Screening Kit, PAF-AH hydrolyzes the acetyl thioester bond at sn-2 position of substrate and free thiols are detected using DTNB. In the presence of PAF-AH inhibitor, the reaction is impeded. The PAF-AH Inhibitor Control is included to compare the efficacy of test inhibitors. The assay is high-throughput adaptable and can be finished in less than 1 hr.

#### Applications

Screening/studying/characterizing potential PAF-AH inhibitors

#### Storage

-20°C

#### Shipping

Gel Pack

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                                |                                                                                                              |
|--------------------------------|--------------------------------------------------------------------------------------------------------------|
| <b>Size</b>                    | 100 assays                                                                                                   |
| <b>Kit Components</b>          | PAF-AH Assay Buffer; DTNB (in DMSO); PAF-AH Substrate (in EtOH); PAF-AHEnzyme; Inhibitor (in DMSO)           |
| <b>Detection method</b>        | Absorbance (OD 412 nm)                                                                                       |
| <b>Features &amp; Benefits</b> | Rapid & simple; Reliable test for screening potential inhibitors of PAF-AH; Includes PAF-AH Inhibitor (MAFP) |

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA