

Catalog Number: CM01341

## 产品信息

**Catalog Number:**  
CM01341

**CAS号:**  
6823-69-4

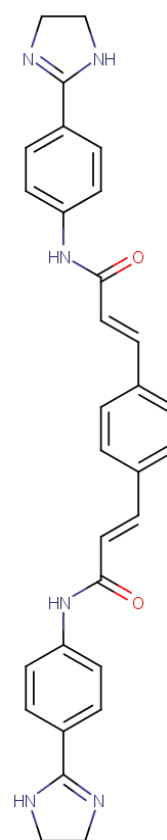
**分子式:**  
C<sub>30</sub>H<sub>30</sub>Cl<sub>2</sub>N<sub>6</sub>O<sub>2</sub>

**主要靶点:**  
Phospholipase

**主要通路:**  
代谢

**分子量:**  
577.5

**溶解度:**  
DMSO:< 1 mg/mL (insoluble or slightly soluble)



HCl

HCl

## 靶点活性

SMase:1 μM

## 体外活性

**方法:** 人乳腺癌细胞 MCF-7 用 GW4869 (10 μM) 预处理 30 min, 再加入 TNF (3 nM) 孵育 6-24 h, 使用 E. coli diacylglycerol kinase assay 检测神经酰胺水平。结果: GW4869 显著抑制了 TNF 诱导的神经酰胺积累。GW4869 对 N-SMase 有抑制作用。[1]  
**方法:** 巨噬细胞 RAW264.7 用 GW4869 (10-20 μM) 预处理 2 h, 随后用 LPS (1 μg/mL) 孵育 24 h, 检测 AChE 活性。结果: 用 10 μM GW4869 预处理巨噬细胞后, LPS 触发的外泌体生成在巨噬细胞中显著减弱, AChE 的活性降低了 22%。用 20 μM GW4869 处理进一步增强了这种衰减。[2]

## 体内活性

**方法:** 为检测体内活性, 将 GW4869 (2.5 μg/g) 腹腔注射给 C57BL/6 小鼠, 1 h 后注射 LPS (25 μg/g)。结果: GW4869 预处理小鼠可以减弱 LPS 触发的血液中外泌体和促炎细胞因子的产生, 从而减少心肌炎症。[2]  
**方法:** 为检测体内活性, 将 GW4869 (200 μL 0.3 mg/mL, 2-2.5 μg/g) 腹腔注射给 5XFAD 小鼠, 每两天一次, 持续六周。结果: GW4869 通过阻止外泌体分泌来减少体内淀粉样斑块的形成。[3]

## 细胞实验

GW4869 is routinely stored at -80°C as a 1.5 mM stock suspension in Me2SO. Right before use, the suspension is solubilized by the addition of 5% methane sulfonic acid (MSA) (2.5 μL of 5% MSA in sterile double-distilled Water are added to 50 μL of GW4869 stock suspension). Cells are treated with GW4869 for 30 min and then TNF is added in 10 μL/well. At the indicated time points, 25 μL of MTT stock solution are added to each well and incubated at 37°C in 5% CO<sub>2</sub> for 3 h. The cell viability is using the MTT assay[1].

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year | Shipping with blue ice.