

Catalog Number: CM04905

## 产品信息

**Catalog Number:**  
CM04905

**CAS号:**  
1450881-55-6

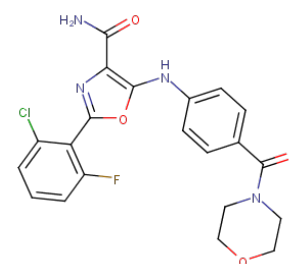
**分子式:**  
 $C_{21}H_{18}ClFN_4O_4$

**主要靶点:**  
JAK|Tyrosine Kinases

**主要通路:**  
表观遗传|JAK/STAT 信号通路|血管生成|干细胞|蛋白酪氨酸激酶|蛋白酪氨酸激酶

**分子量:**  
444.84

**溶解度:**  
DMSO:55 mg/mL (123.64 mM)



## 靶点活性

JAK2:26nM|JAK1:23nM|TYK2:0.6 nM|JAK3:41 nM

## 体外活性

SAR-20347 在NK-92细胞受IL-12刺激时,有效抑制IL-12介导的STAT4磷酸化(TYK2依赖性, IC50: 126 nM)。SAR-20347(最大效应: 5  $\mu$ M)剂量依赖性地抑制分泌型胚胎碱性磷酸酶(SEAP)的产生。

## 体内活性

与对照组动物相比, SAR-20347(60 mg/kg)能够在体内抑制TYK2信号传导,表现为抑制血清中IFN- $\gamma$ 的产量达91%。此外,通过平均信号强度的测量, SAR-20347显著减少了IL-17的产生,这与基因表达分析的结果是一致的。

## 动物实验

Female 7 to 9-week old C57BL/6 mice are used. Mice are administered vehicle or 50 mg/kg SAR-20347 by oral gavage 30 minutes prior to application of 62.5 mg 5% imiquimod cream or control cream. Another dose of vehicle or 50 mg/kg SAR-20347 is given 5.5 hours following the first dose. This treatment is repeated for 5 days and on day 3 and 4, animals are injected with 100  $\mu$ L saline to prevent dehydration. On the 6th day, the animals are euthanized and photographs are taken[1].

## 细胞实验

Cells are plated in a 96-well v-bottom plate in starvation medium, incubated with SAR-20347 (0.5% DMSO) for 20 minutes at 37°C, 5% CO<sub>2</sub>, and stimulated with individual cytokines. P-STAT levels are measured in duplicate using MSD plates following the manufacturer's instructions (MSD)[1].

## 储存

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