

Catalog Number: CM04891

## 产品信息

**Catalog Number:**  
CM04891

**CAS号:**  
944842-54-0

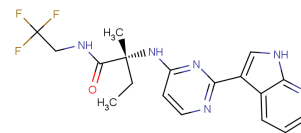
**分子式:**  
C<sub>18</sub>H<sub>19</sub>F<sub>3</sub>N<sub>6</sub>O

**主要靶点:**  
Tyrosine Kinases|JAK

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

**分子量:**  
392.38

**溶解度:**  
Ethanol:16 mg/mL (40.8 mM),DMSO:72 mg/mL (183.5 mM),H<sub>2</sub>O:<1 mg/mL



## 靶点活性

JAK3:2.5 nM(Ki)

## 体外活性

In HT-2 cells, Decernotinib inhibits IL-2-stimulated HT-2 STAT-5 phosphorylation, human T-cell blast proliferation, and CD40L/IL-4-induced B-cell proliferation. [1]

## 体内活性

In a rat model of collagen-induced arthritis, VX-509 (50 mg/kg, p.o.) results in dose-dependent reduction in ankle swelling and paw weight and improved paw histopathology scores. In a mouse model of oxazolone-induced delayed-type hypersensitivity, VX-509 (50 mg/kg, p.o.) significantly suppresses ear edema. [1] In a rat HvG model, VX-509 (50 mg/kg, p.o.) results in dose-dependent inhibition of popliteal lymph node (PLN) hyperplasia. [2]

## 细胞实验

Frozen purified human B cells are thawed, washed, and resuspended in complete medium. Cells are plated onto a 96-well plate at a density of  $2 \times 10^5$  cells/well. VX-509 is added, and plates are incubated for 30 minutes at 37°C, followed by stimulation with a combination of 10 ng/ml IL-4 and 1  $\mu$ g/ml CD40L. DMSO alone is added to the top two rows, one of which is stimulated with IL-4 or CD40L (negative control) and the other of which served as a proliferation control. The plates are incubated at 37°C for 6 days. On day 6, cells are pulsed with [3H]thymidine for 7 hours and harvested onto filters for radioactive determination using a PerkinElmer-Wallace beta counter (1205 Betaplate Beta Liquid Scintillation Counter). Data are analyzed with Softmax pro software to generate an IC<sub>50</sub> value.(Only for Reference)

## 描述

Decernotinib(VX-509; VRT-831509) is a potent and selective Janus kinase 3 (JAK3) inhibitor with Ki of 2.5 nM; IC<sub>50</sub> is 50-170 nM in cellular assays.

## 储存

Powder: -20°C for 3 years | In solvent: -80°C for 2 years