

Catalog Number: CM03597

## 产品信息

**Catalog Number:**  
CM03597

**CAS号:**  
1392136-43-4

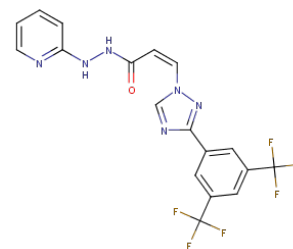
**分子式:**  
 $C_{18}H_{12}F_6N_6O$

**主要靶点:**  
CRM1

**主要通路:**  
离子通道

**分子量:**  
442.32

**溶解度:**  
Ethanol:9 mg/mL (20.3 mM); DMSO:82 mg/mL (185.4 mM)



## 体外活性

在常染色体显性多囊肾疾病模型中,腹腔注射Verdinexor (5 mg/kg),通过抑制XPO1减弱囊肿生长.每天两次口服Verdinexor (25 mg/kg)能够降低与致死性甲型流感A病毒相关的肺疾病的发病率和死亡率,主要通过降低肺中促炎性细胞因子的表达,从而减少肺病毒滴度,因此产生抗病毒活性。

## 体内活性

在Jurkat、OCI-Ly3、OCI-Ly10和CLBL1细胞中, Verdinexor以IC50分别为0.3 nM、2.1 nM、41.8 nM、和8.5 nM的浓度抑制细胞活性。对于原发性犬DLBCL细胞和表达XPO1及SINE的CLBL1细胞, KPT-335诱导细胞凋亡。Verdinexor对包括H1N1流行病毒、高致病性H5N1禽流感病毒以及新近出现的H7N9病毒株在内的多种流感病毒株具有强效的抑制作用。

## 细胞实验

Cell viability for lymphoid lines is determined by the MTS assay using CellTiter 96® Aqueous One Solution Cell Proliferation Assay Kit. Briefly, for lymphoid cell lines,  $5 \times 10^4$  cells (or  $1 \times 10^5$  primary DLBCL cells) are cultured in 100  $\mu$  L of complete medium in 96-well plates in the presence of SINE compounds. After 72 hours, 20  $\mu$  L of MTS solution is added to each well and cells are incubated for another 4 hours before measuring absorbance at 490 nm using a Wallac Victor 1420 Multilabel Counter. The IC50 of SINE is calculated using Prism 6 software. For the non-lymphoid cell lines, 96 well plates are seeded in triplicate in 90  $\mu$  L with 2500 cells/well of OSA16, 5000 cells/well of C2, and 2500 cells/well of 323610-3. Seeded plates are cultured overnight then treated the following day with 10  $\mu$  L of KPT-214 in C10 media at concentrations of 0.0001, 0.01, 0.1, 1.0, and 10  $\mu$  M. Plates are collected at 92 hours, centrifuged at 1300 rpm, and supernatant is removed by inverting plates on absorbent paper. Plates are then sealed and immediately placed at 780°C for a minimum of 12 hours. Plates are then thawed and CyQUANT® Cell Proliferation Assay is performed following the manufacturer's protocol. Briefly, 200  $\mu$  L of the diluted working CyQUANT solution is added to each well and protected from light. Fluorescence is the measured using a SpectraMax M2 microplate reader at 480 nm excitation and 520 nm emission. Results are represented as percent of control, or plotted to calculate IC50 values at 92 hours.(Only for Reference)

## 储存

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