

Catalog Number: CM04754

## 产品信息

**Catalog Number:**  
CM04754

**CAS号:**  
662163-81-7

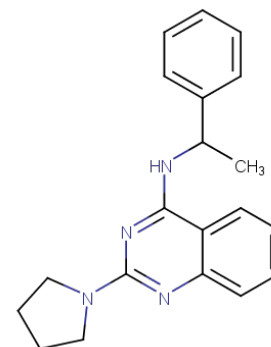
**分子式:**  
C<sub>20</sub>H<sub>22</sub>N<sub>4</sub>

**主要靶点:**  
Apoptosis|Others

**主要通路:**  
其他|凋亡

**分子量:**  
318.42

**溶解度:**  
DMSO:33 mg/mL,Ethanol:28  
mg/mL(87.9 mM)



## 体外活性

Importazole is an effective inhibitor of the Ran/importin- $\beta$  interaction in vitro. Importazole specifically blocks importin- $\beta$ -mediated nuclear import both in *Xenopus* egg extracts and cultured cells, without disrupting transportin-mediated nuclear import or CRM1-mediated nuclear export. When added during mitosis, importazole impairs the release of an importin- $\beta$  cargo FRET probe and causes both predicted and novel defects in spindle assembly[1]. It also inhibits proliferation and induces apoptosis of multiple myeloma cells by blocking the NF- $\kappa$ B signal pathway in vitro[2].

## 细胞实验

For all import and export experiments, HEK 293 cells stably expressing NFAT-GFP are grown on glass coverslips to approximately 50% confluency prior to drug treatment. In all cases, importazole is used at 40  $\mu$ M and leptomycin B is used at 10 ng/mL. For controls, DMSO is used at a concentration of 0.4%. Ionomycin is added at 1.25  $\mu$ M. Importazole and leptomycin B treatments are all for 1 hour. In all experiments cells are fixed with 4% formaldehyde prior to fluorescence microscopy. DNA is visualized with 1  $\mu$ g/mL Hoechst dye. For quantification, 100 cells from each condition are analyzed and the percentage that shows nuclear accumulation of NFAT-GFP calculated.(Only for Reference)

## 描述

Importazole is an inhibitor of the nuclear transport receptor importin- $\beta$ .

## 储存

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