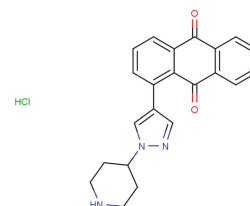


Catalog Number: CM05825

产品信息

Catalog Number:
CM05825CAS号:
2310262-11-2分子式:
 $C_{22}H_{20}ClN_3O_2$ 主要靶点:
PDK|Apoptosis主要通路:
PI3K/Akt/mTOR信号通路|凋亡分子量:
393.87溶解度:
DMSO:125 mg/mL (317.36
mM), Sonification is
recommended.

靶点活性

Pyruvate dehydrogenase kinase 4 (PDK4):84 nM

体外活性

PDK4-IN-1 hydrochloride treatment significantly impedes the proliferation of human colon cancer cell lines, HCT116 and RKO. The colony formation efficiency in HCT116 and RKO cells is significantly reduced after treatment of PDK4-IN-1[1]. PDK4-IN-1 (Compound 8c; 10-50 μ M; 24 hours; HCT116 and RKO cells) treatment dose-dependently increased apoptosis. PDK4-IN-1 decreases the expression of BCL-xL and increases the expression of BAX. Cleavage of PARP1 and caspase 3 are increased by PDK4-IN-1[1].

体内活性

PDK4-IN-1 (C57BL/6J mice) treatment significantly improves glucose tolerance[1]. Pre-incubation with PDK4-IN-1 (compound 8c) dose-dependently inhibits the release of β -hexosaminidase from IgE/antigen-activated BMMCs,

描述

PDK4-IN-1 hydrochloride is an anthraquinone derivative and a potent and orally active inhibitor of pyruvate dehydrogenase kinase 4 (PDK4, IC50 value = 84 nM).

储存

Powder: -20°C for 3 years | In solvent: -80°C for 1 year