
VLX600

产品编号: D50920

CAS: 327031-55-0

分子式: C₁₇H₁₅N₇

纯度: ≥98%

InChi: InChI=1S/C₁₇H₁₅N₇/c1-10-6-5-7-12-14(10)19-16-15(12)22-24-17(20-16)23-21-11(2)13-8-3-4-9-18-13/h3-9H,1-2H₃, (H₂,19,20,23,24)/b21-11+

InChi Key: UQOSBPRTQFFUOA-SRZZPIQSSA-N

Smiles: CC(=NNC1N=NC2=C(NC3=C2C=CC=C3C)N=1)C1C=CC=CN=1

外观: 固体粉末

作用通路: Autophagy

溶解性: DMSO up to 50 mM

保存条件: Store in dry, dark place for one year.

产品介绍: VLX600 is a potent and selective mitochondrial OXPHOS inhibitor. It is preferentially active against quiescent cells in colon cancer 3-D microtissues (low micromole activity). The anticancer activity is associated with reduced mitochondrial respiration, leading to bioenergetic catastrophe and tumour cell death. VLX600 shows enhanced cytotoxic activity under conditions of nutrient starvation. It induces the expression of genes associated with hypoxia, glycolysis, and p53 signaling, stimulates autophagy, and triggers mitochondrial dysfunction in MCs. It displays antitumor activity against colon cancer xenografts with minimal systemic toxicity in mice. Right now it is in phase I clinical trials for patients with refractory advanced solid tumors.