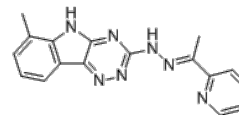


Product Name : VLX600
Cat. No. : PC-72445
CAS No. : 327031-55-0
Molecular Formula : C₁₇H₁₅N₇
Molecular Weight : 317.356
Target : Other Targets
Solubility : 10 mM in DMSO



Biological Activity

VLX600 (VLX-600) is a small molecule **iron chelator** and mitochondrial oxidative phosphorylation (**OXPHOS**) inhibitor, targets quiescent tumor cells and to inhibit mitochondrial respiration. VLX600 shows enhanced cytotoxic activity under conditions of nutrient starvation, displays tumour growth inhibition in vivo. decrease mitochondrial energy production, an effect poorly tolerated by metabolically stressed tumor cells. VLX600 inhibits a number of colon cancer cell lines with IC₅₀ of 1 μ M. In KitV558del/+ mice, VLX600 alone did not induce tumor cell death, but had a profound antitumor effect when combined with imatinib.

References

- Zhang X, et al. *Nat Commun.* 2014;5:3295.
Fryknäs M, et al. *Sci Rep.* 2016 Dec 7;6:38343.
Antonescu CR, et al. *Clin Cancer Res.* 2018 Feb 15;24(4):972-984.
Karlsson H, et al. *Oncotarget.* 2019 Sep 3;10(51):5372-5382.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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