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Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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VLX600

Chemical Properties

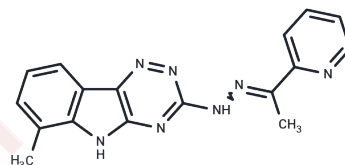
CAS No. : 327031-55-0

Formula: C₁₇H₁₅N₇

Molecular Weight: 317.35

Appearance: no data available

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



Biological Description

Description	VLX600 is an iron-chelating oxidative phosphorylation (OXPHOS) inhibitor, is a cell-permeable anticancer agent. It acts by reducing mitochondrial oxidative phosphorylation in tumor cells.
Targets(IC50)	OXPHOS,Mitochondrial Metabolism,Autophagy
In vitro	VLX600 as a drug that is preferentially active against quiescent cells in colon cancer 3-D microtissues.?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.?Importantly, VLX600 displays tumour growth inhibition in vivo.
Cell Research	HCT116, HT29, SW620, HT8, DLD and RKO cells.Concentration,0.1, 1, 10, 100µM. 72 hours

Solubility Information

Solubility	DMSO: 8 mg/mL (25.21 mM), (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1511 mL	15.7555 mL	31.511 mL
5 mM	0.6302 mL	3.1511 mL	6.3022 mL
10 mM	0.3151 mL	1.5755 mL	3.1511 mL
50 mM	0.063 mL	0.3151 mL	0.6302 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Xiaonan Zhang , Mårten Fryknäs , Emma Hernlund,et al. Induction of Mitochondrial Dysfunction as a Strategy for Targeting Tumour Cells in Metabolically Compromised Microenvironments[J].Nat Commun. 2014;5:3295.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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