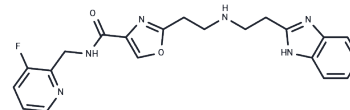


Vamifeport

Chemical Properties

CAS No. :	2095668-10-1
Formula:	C ₂₁ H ₂₁ N ₃ O ₂
Molecular Weight:	408.43
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Vamifeport (VIT-2763) is a novel orally active inhibitor that targets iron transport proteins and reduces markers of hemolysis in the SCD Townes model. VIT-2763 improves anemia and erythropoiesis, ameliorates vascular inflammation, and can be studied in β -thalassemia.
Targets(IC ₅₀)	Ferroptosis
In vitro	Treatment with VIT-2763 (20 μ M) or hepcidin (1 μ M) for 20 minutes, 1 hour, 3 hours, 6 hours, and 18 hours induced dose-dependent internalization and ubiquitination of iron transporters in MDCK cells[1].
In vivo	VIT-2763 (30, 100 mg/kg; orally twice daily for 36 days) restricted iron availability, ameliorating anemia and iron homeostasis dysregulation in the intermediate β -thalassemia Hbbth3/+ mouse model. VIT-2763 not only improved erythropoiesis but also corrected the proportion of myeloid precursors in the spleen of Hbbth3/+ mice[1].

Solubility Information

Solubility	DMSO: 70 mg/mL (171.39 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4484 mL	12.242 mL	24.484 mL
5 mM	0.4897 mL	2.4484 mL	4.8968 mL
10 mM	0.2448 mL	1.2242 mL	2.4484 mL
50 mM	0.049 mL	0.2448 mL	0.4897 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

Vania Manolova, et al. Oral Ferroportin Inhibitor Ameliorates Ineffective Erythropoiesis in a Model of β -Thalassemia. J Clin Invest. 2019 Dec 9;130(1):491-506.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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