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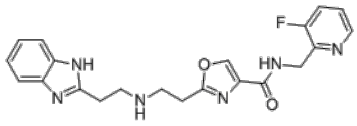
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	VIT-2763
Cat. No.	:	PC-73101
CAS No.	:	2095668-10-1
Molecular Formula	:	$C_{21}H_{21}FN_6O_2$
Molecular Weight	:	408.437
Target	:	Other Targets
Solubility	:	10 mM in DMSO



Biological Activity

VIT-2763 (Vamifeport, VIT2763) is an oral small molecule inhibitor of **ferroportin**, inhibits hepcidin binding to ferroportin with IC50 of 9 nM, blocks iron efflux.
VIT-2763 triggers ubiquitination and subsequent internalization and degradation of ferroportin.
Orally dosed VIT-2763 (30 mg/kg) decreased decrease in serum iron induced by hepcidin in rodents.
VIT-2763 decreased serum iron and prevented liver iron loading in Hbbth3/+ mice.
VIT-2763 significantly corrected anemia and improved RBC parameters in Hbbth3/+ mice, improved the ineffective erythropoiesis in BM and spleen.
VIT-2763 reduced the formation of insoluble α-globin aggregates and improved the elimination of mitochondria in RBCs.
VIT-2763 decreased apoptosis and extended the life span, reduced hypoxia response of RBCs.

References

Manolova V, et al. ***J Clin Invest.*** 2019 Dec 9;130(1):491-506.

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