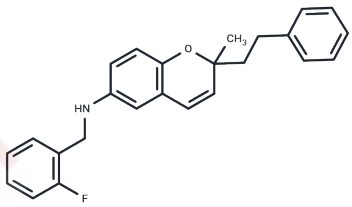
Data Sheet (Cat.No.T68511)

KRH102140

Chemical Properties



CAS No. : 864769-01-7

Formula: C25H24FNO

Molecular Weight: 373.46

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	KRH102140 is a PHD2 activator that reduces angiogenesis by inhibiting HIF-1alpha, used in cardiovascular disease research.
Targets(IC50)	HIF/HIF Prolyl-Hydroxylase
In vitro	KRH102140 is a PHD2 activator that effectively inhibits HIF-1α in hypoxic human osteosarcoma cells. In addition, KRH102140 reduced mRNA levels of downstream target genes of HIF regulation related to angiogenesis and energy metabolism. [1] KRH102140 inhibited 5-LO activity with an IC50 value of 160 ± 23 nmol/l and inhibited LTB in RBL-1 cells. [2]
In vivo	Oral administration of KRH102140 (10-100 mg/kg) reduced ear edema, myeloperoxidase activity, and LTB production in a mouse inflammatory model. The oral bioavailability of rats was 66%. [2]

Solubility Information

Solubility	DMSO: 100 mg/mL (267.77 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6777 mL	13.3883 mL	26.7766 mL
5 mM	0.5355 mL	2.6777 mL	5.3553 mL
10 mM	0.2678 mL	1.3388 mL	2.6777 mL
50 mM	0.0536 mL	0.2678 mL	0.5355 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.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

Nepal M, et al. An activator of PHD2, KRH102140, decreases angiogenesis via inhibition of HIF-1α. Cell Biochem Funct. 2011 Mar;29(2):126-34.

Cho YS, et al. Discovery of (2-fluoro-benzyl)-(2-methyl-2-phenethyl-2H-chromen-6-yl)-amine (KRH-102140) as an orally active 5-lipoxygenase inhibitor with activity in murine inflammation models. Pharmacology. 2011;87(1-2): 49-55.