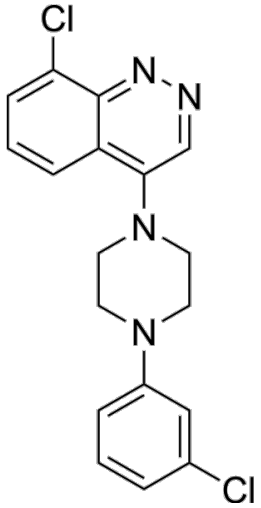
Product Data Sheet

Product Name: FiVe1
Cat. No.: GC70568

Chemical Properties

Cas. No.	932359-76-7		
Formula	$C_{18}H_{16}Cl_2N_4$	M.Wt	359.25
Solubility	DMSO : 3.6 mg/mL (10.02 mM; Need ultrasonic and warming; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)	Storage	
General tips	For obtaining a higher solubility , please warm the tube at 37 °C and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20°C for several months.		
Shipping Condition	Evaluation sample solution : ship with blue ice All other available size: ship with RT , or blue ice upon request.		

Structure



Background

FiVe1 is a potent vimentin (VIM; the intermediate filament and mesenchymal marker) inhibitor. FiVe1 promotes VIM disorganization and phosphorylation during metaphase, leading to mitotic catastrophe, multinucleation, and the loss of stemness. FiVe1 selectively and irreversibly inhibits the growth of multiple FOXC2-expressing breast cancer cell lines (HMLER cells (IC50: 267 nM); FOXC2-HMLER

cells (IC50: 447 nM). FiVe1 inhibits the migration of mesenchymally transformed cells.

References:

[1]. Michael J Bollong, et al. A vimentin binding small molecule leads to mitotic disruption in mesenchymal cancers. Proc Natl Acad Sci U S A. 2017 Nov 14;114(46):E9903-E9912.