

## Product Data Sheet

Product Name: FiVe1  
Cat. No.: GC70568

### Chemical Properties

Cas. No. 932359-76-7

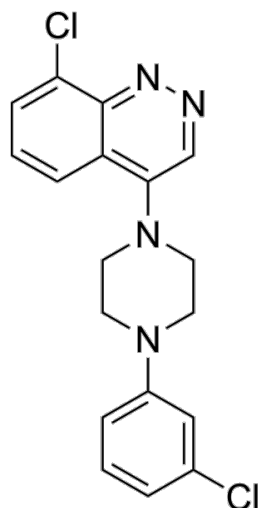
Formula  $C_{18}H_{16}Cl_2N_4$  M.Wt 359.25

Solubility DMSO : 3.6 mg/mL (10.02 mM; Need Storage ultrasonic and warming; Hygroscopic DMSO has a significant impact on the solubility of product, please use newly opened DMSO)

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 (IC<sub>50</sub>: 267 nM); FOXC2-HMLER

**Caution: Product has not been fully validated for medical applications. For research use only.**

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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.

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