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## Product Data Sheet

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Product Name: PDK1-IN-RS2

Cat. No.: GC66474

### Chemical Properties

Cas. No. 1643958-89-7

Formula  $C_{15}H_{19}ClN_2O_2S_3$

M.Wt 380.89

Solubility DMSO : 125 mg/mL (328.18 mM; Need ultrasonic) Storage Store at -20°C

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

PDK1-IN-RS2 is a mimic of peptide docking motif (PIFtide) and is a substrate-selective **PDK1** inhibitor with a  $K_d$  of 9  $\mu$ M. PDK1-IN-RS2 suppresses the activation of the downstream kinases S6K1 by **PDK1**<sup>[1]</sup>.

PDK1-IN-RS2 stimulates the catalytic activity of PDK1 toward a peptide substrate by sixfold. The sulfonyl group of PDK1-IN-RS2 interacts with Arg131 through a salt bridge, because the sulfonamide is likely ionized under the crystallization conditions<sup>[1]</sup>.

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

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