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## Product Data Sheet

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Product Name: CC260  
Cat. No.: GC62890

### Chemical Properties

Cas. No. 2411088-26-9

Formula  $C_{24}H_{29}Cl_2N_5O_2$  M.Wt 490.43

Solubility DMSO : 160 mg/mL (326.24 mM; Need ultrasonic) 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

CC260 is a selective PI5P4K $\alpha$  and PI5P4K $\beta$  inhibitor with Kis of 40 nM and 30 nM, respectively. CC260 does not inhibit or weakly inhibits other protein kinases, such as Plk1 and RSK2. CC260 can be used for cell energy metabolism, diabetes and cancer research[1].

In cultured C2C12 myotubes, CC260 (20  $\mu$ M) enhances Insulin-induced Akt phosphorylation at both Thr-308 and Ser-473 but suppresses S6K phosphorylation (Thr-389) by mTORC1[1]. CC260 (2.5  $\mu$ M, 5  $\mu$ M, 10  $\mu$ M, 20  $\mu$ M) significantly increases phosphorylation of acetyl-CoA carboxylase (ACC) in a dose-dependent manner[1]. CC260 treatment reduces the ability of BT474 cells to survive serum starvation, which could be rescued by expressing the PI5P4K $\beta$  refractory mutant[1]. In BT474 cells, CC260 treatment causes an increase in glycolytic ATP production[1].

[1]. Song Chen, et al. Pharmacological inhibition of PI5P4K $\alpha$ / $\beta$  disrupts cell energy metabolism and selectively kills p53-null tumor cells. Proc Natl Acad Sci U S A. 2021 May 25;118(21):e2002486118.

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

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