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## Product Data Sheet

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Product Name: K-Ras(G12C) inhibitor 6

Cat. No.: GC17388

### Chemical Properties

Cas. No. 2060530-16-5

SMILES C1CN(CCC1NC(=O)CCCS)C(=O)COC2=C(C=C(C=C2)Cl)Cl

Formula  $C_{17}H_{22}Cl_2N_2O_3S$

M.Wt

405.34

Solubility  $\geq 20.25\text{mg/mL}$  in DMSO

Storage

Store at  $-20^{\circ}\text{C}$

General tips For obtaining a higher solubility, please warm the tube at  $37^{\circ}\text{C}$  and shake it in the ultrasonic bath for a while. Stock solution can be stored below  $-20^{\circ}\text{C}$  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

K-Ras (G12C) inhibitor 6 is an allosterical inhibitor of oncogenic mutation K-Ras G12C [1].

K-Ras (G12C) inhibitor 6 is a cysteine-reactive small molecule. It irreversibly binds to the G12C mutation of GTPase K-Ras but not the wild-type K-Ras with the relative potency value of 4.2. The binding pocket of K-Ras for K-Ras (G12C) inhibitor 6 is a new allosteric pocket, S-IIP. Binding of this pocket results in a change of the relative nucleotide affinity of Ras to favour GDP over GTP, leading to an accumulation of inactive Ras. Since the mutation of K-Ras is quite common in human cancers, the inhibitor of K-Ras G12C should exert suppression activities in tumor cells. It has been reported that, some of the K-Ras G12C inhibitors are indeed effective to decrease cell viability and increase apoptosis in lung cancer cell lines [1].

### References:

[1] Ostrem J M, Peters U, Sos M L, et al. K-Ras (G12C) inhibitors allosterically control GTP affinity and effector interactions. *Nature*, 2013, 503(7477): 548-551.

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

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