

Product Data Sheet

Product Name: PDK1-IN-2

Cat. No.: GC72885

Chemical Properties

Cas. No. 1643958-85-3

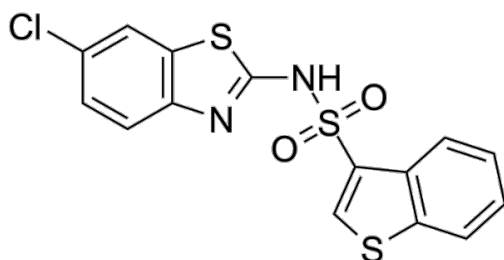
Formula $C_{15}H_9ClN_2O_2S_3$ M.Wt 380.89

Solubility DMSO : 4 mg/mL (10.50 mM; Need ultrasonic and warming) Storage $-20^{\circ}C$

General tips For obtaining a higher solubility , please warm the tube at $37^{\circ}C$ and shake it in the ultrasonic bath for a while. Stock solution can be stored below $-20^{\circ}C$ 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-2 is a small molecule inhibitor of 3-phosphoinositol-dependent protein kinase-1 (PDK1). PDK1-IN-2 inhibits the binding of PDK1 to its substrate by competitively binding to the PIF pocket of PDK1, thereby inhibiting the kinase activity and downstream signaling of PDK1. PDK1-IN-2 can be used for cell survival and proliferation in cancer.

References:

[1]. Rettenmaier T J, et al. A small-molecule mimic of a peptide docking motif inhibits the protein

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

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kinase PDK1[J]. Proceedings of the National Academy of Sciences, 2014, 111(52): 18590-18595.

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