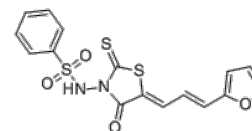


**Product Name** : CU-3  
**Cat. No.** : PC-63497  
**CAS No.** : 1815598-71-0  
**Molecular Formula** : C<sub>16</sub>H<sub>12</sub>N<sub>2</sub>O<sub>4</sub>S<sub>3</sub>  
**Molecular Weight** : 392.462  
**Target** : Diacylglycerol Kinase (DGK)  
**Solubility** : 10 mM in DMSO



## Biological Activity

CU-3 (DGK $\alpha$  inhibitor CU-3) is a novel potent, selective diacylglycerol kinase  $\alpha$  (**DGK $\alpha$** ) inhibitor with IC<sub>50</sub> of 0.6  $\mu$ M, targets the catalytic region, but not the regulatory region.

CU-3 competitively reduces the affinity of DGK $\alpha$  for ATP, but not diacylglycerol or phosphatidylserine, displays selectivity over other nine isozymes (IC<sub>50</sub>>7  $\mu$ M).

CU-3 induces apoptosis in HepG2 hepatocellular carcinoma and HeLa cervical cancer cells while simultaneously enhancing the interleukin-2 production of Jurkat T cells.

## References

Liu K, et al. *J Lipid Res.* 2016 Mar;57(3):368-79.

**Caution: Product has not been fully validated for medical applications. Lab Use Only!**

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