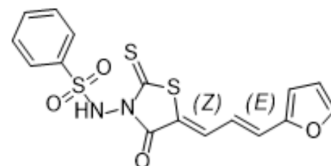


(5Z,2E)-CU-3

| | | | |
|--------------------|--|-------|---------|
| Cat. No.: | HY-121638A | | |
| CAS No.: | 1815598-71-0 | | |
| Molecular Formula: | C ₁₆ H ₁₂ N ₂ O ₄ S ₃ | | |
| Molecular Weight: | 392.47 | | |
| Target: | Apoptosis; DGK | | |
| Pathway: | Apoptosis; Metabolic Enzyme/Protease | | |
| Storage: | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 2 years |
| | | -20°C | 1 year |



SOLVENT & SOLUBILITY

| | | | | | |
|---|--|--------------------------|--------------|------------|------------|
| In Vitro | DMSO : 20 mg/mL (50.96 mM; ultrasonic and warming and heat to 60°C) | | | | |
| | | Solvent Concentration | Mass 1 mg | 5 mg | 10 mg |
| | Preparing Stock Solutions | 1 mM | 2.5480 mL | 12.7398 mL | 25.4797 mL |
| | | 5 mM | 0.5096 mL | 2.5480 mL | 5.0959 mL |
| 10 mM | | 0.2548 mL | 1.2740 mL | 2.5480 mL | |
| Please refer to the solubility information to select the appropriate solvent. | | | | | |
| In Vivo | 1. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: 2 mg/mL (5.10 mM); Suspended solution; Need ultrasonic | | | | |

BIOLOGICAL ACTIVITY

| | |
|---------------------------|--|
| Description | (5Z,2E)-CU-3 is a potent and selective inhibitor against the α-isozyme of DGK with an IC ₅₀ value of 0.6 μM, competitively inhibits the affinity of DGKα for ATP with a K _m value of 0.48 mM. (5Z,2E)-CU-3 targets the catalytic region, but not the regulatory region of DGKα. (5Z,2E)-CU-3 has antitumoral and proimmunogenic effects, enhances the apoptosis of cancer cells and the activation of T cells ^[1] . |
| IC ₅₀ & Target | IC50: 0.6 μM (DGKα) ^[1] |

CUSTOMER VALIDATION

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- bioRxiv. March 16, 2022..

See more customer validations on www.MedChemExpress.com

REFERENCES

[1]. Liu K, et al. A novel diacylglycerol kinase α -selective inhibitor, CU-3, induces cancer cell apoptosis and enhances immune response. J Lipid Res. 2016 Mar;57(3):368-79.

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

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