# PF-06928215

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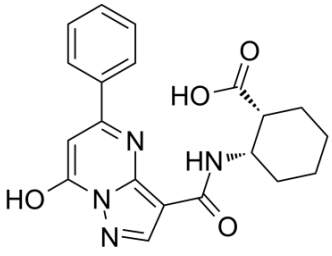
|---|---|---|---|
| **Cat. No.:** | HY-114182 | | |
| **Molecular Formula:** | $C_{20}H_{20}N_4O_4$ | | |
| **Molecular Weight:** | 380.4 | | |
| **Target:** | Others | | |
| **Pathway:** | Others | | |
| **Storage:** | Powder | -20°C | 3 years |
| | | 4°C | 2 years |
| | In solvent | -80°C | 6 months |
| | | -20°C | 1 month |



## SOLVENT & SOLUBILITY

**In Vitro**

**DMSO : 33.33 mg/mL (87.62 mM;** Need ultrasonic)

| Preparing Stock Solutions | Concentration / Solvent / Mass | 1 mg | 5 mg | 10 mg |
|---|---|---|---|---|
| | **1 mM** | 2.6288 mL | 13.1441 mL | 26.2881 mL |
| | **5 mM** | 0.5258 mL | 2.6288 mL | 5.2576 mL |
| | **10 mM** | 0.2629 mL | 1.3144 mL | 2.6288 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: ≥ 1.43 mg/mL (3.76 mM); Clear solution
2. Add each solvent one by one: **10% DMSO >> 90% corn oil**
   Solubility: ≥ 1.43 mg/mL (3.76 mM); Clear solution
3. Add each solvent one by one: **10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline**
   Solubility: ≥ 1.43 mg/mL (3.76 mM); Clear solution

## BIOLOGICAL ACTIVITY

**Description**

PF-06928215 is a **cGAS (cyclic GMP-AMP Synthase)** inhibitor with an **$IC_{50}$** of 4.9 μM. PF-06928215 has a high binding affinity of 0.2 μM (**$K_d$**)[1].

**$IC_{50}$ & Target**

IC50: 4.9 μM (cGAS)[1]
Kd: 0.2 μM[1]

## REFERENCES

[1]. Hall J, et al. Discovery of PF-06928215 as a high affinity inhibitor of cGAS enabled by a novel fluorescence polarization assay. PLoS One. 2017 Sep 21;12(9):e0184843.



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