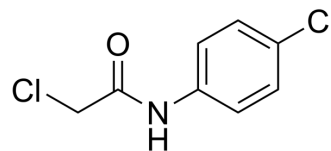


## 2,4'-Dichloroacetanilide

|                    |  |       |          |
|--------------------|--|-------|----------|
| Cat. No.:          | HY-W028684                                       |       |          |
| CAS No.:           | 3289-75-6  |       |          |
| Molecular Formula: | C <sub>8</sub> H <sub>7</sub> Cl <sub>2</sub> NO |       |          |
| Molecular Weight:  | 204.05   |       |          |
| Target:            | Fungal   |       |          |
| Pathway:           | Anti-infection                                   |       |          |
| 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 : 100 mg/mL (490.08 mM; Need ultrasonic)

| Preparing Stock Solutions | Solvent Concentration | Mass      |            |            |
|---------------------------|-----------------------|-----------|------------|------------|
|                           |                       | 1 mg      | 5 mg       | 10 mg      |
|                           | 1 mM                  | 4.9008 mL | 24.5038 mL | 49.0076 mL |
|                           | 5 mM                  | 0.9802 mL | 4.9008 mL  | 9.8015 mL  |
|                           | 10 mM                 | 0.4901 mL | 2.4504 mL  | 4.9008 mL  |

Please refer to the solubility information to select the appropriate solvent.

#### In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline  
Solubility: ≥ 2.5 mg/mL (12.25 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil  
Solubility: ≥ 2.5 mg/mL (12.25 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

2,4'-Dichloroacetanilide is a fungistatic agent. 2,4'-Dichloroacetanilide inhibits *T. asteroides* with a MIC value of 6.25 µg/mL [1].

### REFERENCES

[1]. Yamazoe H, et al. [Studies on the experimental chemotherapy of dermatomycosis and candidiasis. V. On the antifungal activity for various arylhaloacetamide compounds in vitro and in vivo]. *Yakugaku Zasshi*. 1968 Dec;88(12):1602-9. Japanese.

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

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