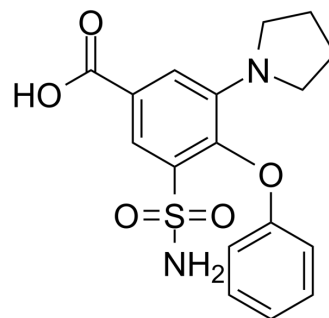


## Piretanide

|                           |   |       |          |
|---------------------------|---|-------|----------|
| <b>Cat. No.:</b>          | HY-119816   |       |          |
| <b>CAS No.:</b>           | 55837-27-9  |       |          |
| <b>Molecular Formula:</b> | C <sub>17</sub> H <sub>18</sub> N <sub>2</sub> O <sub>5</sub> S |       |          |
| <b>Molecular Weight:</b>  | 362.4   |       |          |
| <b>Target:</b>            | Others  |       |          |
| <b>Pathway:</b>           | Others  |       |          |
| <b>Storage:</b>           | Powder  | -20°C | 3 years  |
|                           |   | 4°C   | 2 years  |
|                           | In solvent  | -80°C | 6 months |
|                           |   | -20°C | 1 month  |



### SOLVENT & SOLUBILITY

#### In Vitro

DMSO : 250 mg/mL (689.85 mM; Need ultrasonic)

| Concentration             | Solvent | Mass      |            |            |
|---------------------------|---------|-----------|------------|------------|
|                           |         | 1 mg      | 5 mg       | 10 mg      |
| Preparing Stock Solutions | 1 mM    | 2.7594 mL | 13.7969 mL | 27.5938 mL |
|                           | 5 mM    | 0.5519 mL | 2.7594 mL  | 5.5188 mL  |
|                           | 10 mM   | 0.2759 mL | 1.3797 mL  | 2.7594 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: ≥ 2.08 mg/mL (5.74 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)  
Solubility: ≥ 2.08 mg/mL (5.74 mM); Clear solution

### BIOLOGICAL ACTIVITY

#### Description

Piretanide is an oral active, relatively safe and effective diuretic. Piretanide has the potential for the research of congestive heart failure with a potential advantage of having potassium-sparing properties. Piretanide can also be used for the research of hypertension<sup>[1][2]</sup>.

### REFERENCES

- [1]. Carda-Broch S, et al. Analysis of urine samples containing cardiovascular drugs by micellar liquid chromatography with fluorimetric detection. J Chromatogr Sci. 1999;37(4):93-102.

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[2]. Sherman LG, et al. Piretanide, a potent diuretic with potassium-sparing properties, for the treatment of congestive heart failure. Clin Pharmacol Ther. 1986;40(5):587-594.

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

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