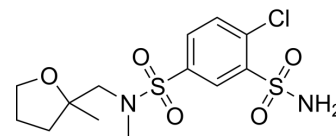


## Mefruside

|                           |  |       |          |
|---------------------------|--|-------|----------|
| <b>Cat. No.:</b>          | HY-123179  |       |          |
| <b>CAS No.:</b>           | 7195-27-9  |       |          |
| <b>Molecular Formula:</b> | C <sub>13</sub> H <sub>19</sub> ClN <sub>2</sub> O <sub>5</sub> S <sub>2</sub> |       |          |
| <b>Molecular Weight:</b>  | 382.88   |       |          |
| <b>Target:</b>            | Others   |       |          |
| <b>Pathway:</b>           | Others   |       |          |
| <b>Storage:</b>           | Powder   | -20°C | 3 years  |
|                           | In solvent   | -80°C | 6 months |
|                           |  | -20°C | 1 month  |



### BIOLOGICAL ACTIVITY

#### Description

Mefruside is an orally active diuretic and has a mild hypotensive effect. Mefruside inhibits the synthesis of urea in an isolated rat liver perfusion model. Mefruside can be used in studies of oedema and hypertension<sup>[1][2]</sup>.

#### In Vitro

Mefruside (0.3 mM; 50 min) shows 34% inhibition of urea synthesis in isolated perfused rat liver<sup>[1]</sup>.  
 Mefruside (0.25, 0.5, 0.75, 1, 1.25 mM) inhibits urea synthesis in a concentration-dependent manner in isolated perfused rat liver<sup>[1]</sup>.  
 MCE has not independently confirmed the accuracy of these methods. They are for reference only.  
 Cell Viability Assay<sup>[1]</sup>

|                  |   |
|------------------|---|
| Cell Line:       | Rat liver (from male Wistar rats of 120-220 g body weight; isolated perfused model) |
| Concentration:   | 0.3 mM  |
| Incubation Time: | 50 min  |
| Result:          | Exhibited inhibition rate of urea synthesis of 34%.                                 |

### REFERENCES

- [1]. Häussinger D, et al. Liver carbonic anhydrase and urea synthesis. *Hepatology*. 1988 Mar-Apr;8(2):435.  
 [2]. Brogden RN, et al. Mefruside: a preliminary report of its pharmacological properties and therapeutic efficacy in oedema and hypertension. *Drugs*. 1974;7(6):419-25.

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

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