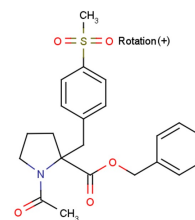


(+) -KCC2 blocker 1

**Chemical Properties**

CAS No.: 1228439-71-1  
Formula: C<sub>22</sub>H<sub>25</sub>NO<sub>5</sub>S  
Molecular Weight: 415.5  
Appearance: N/A  
Storage: 0-4°C for short term (days to weeks), or -20°C for long term (months).

**Biological Description**

|                            |  |
|----------------------------|--|
| Description                | (+) -KCC2 blocker 1 is a selective blocker of K <sup>+</sup> -Cl <sup>-</sup> cotransporter KCC2 (IC <sub>50</sub> of 0.4 μM).                                 |
| Targets(IC <sub>50</sub> ) | KCC2: 0.4 μM   |
| In vitro                   | (+) -KCC2 blocker 1 ((+)-13) is a enantiomers of KCC2 blocker 1, has a 100-fold difference in potency compare with enantiomer (-) -KCC2 blocker 1 ((-)-13)[1]. |

**Solubility Information**

|            |   |
|------------|---|
| Solubility | < 1 mg/ml refers to the product slightly soluble or insoluble |
|------------|---|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.407 mL | 12.034 mL | 24.067 mL |
| 5 mM  | 0.481 mL | 2.407 mL  | 4.813 mL  |
| 10 mM | 0.241 mL | 1.203 mL  | 2.407 mL  |
| 50 mM | 0.048 mL | 0.241 mL  | 0.481 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

1. Pégurier C, et al. Benzyl prolinates as novel selective KCC2 blockers. *Bioorg Med Chem Lett*. 2010 Apr 15;20(8):2542-5.

Inhibitors · Natural Compounds · Compound Libraries

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