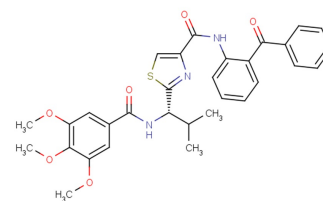


## Data Sheet (Cat.No.T13222)

TTT-28

### Chemical Properties

|                   |  |
|-------------------|--|
| CAS No.:          | 1609138-51-3   |
| Formula:          | C <sub>31</sub> H <sub>31</sub> N <sub>3</sub> O <sub>6</sub> S        |
| Molecular Weight: | 573.66   |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |



### Biological Description

|                            |   |
|----------------------------|---|
| Description                | TTT-28 is a thiazole-valine peptidomimetic, and is a selective ABCB1 (P-gp/MDR1) inhibitor with high efficacy and low toxicity, which reverses the ATP-binding cassette sub-family B member 1 (ABCB1)-mediated Multidrug resistance (MDR) by selectively blocking the efflux function of ABCB1. |
| Targets(IC <sub>50</sub> ) | Others: None  |
| In vivo                    | TTT-28 (deliver orally; 30 mg/kg; every 3 rd day; 18 days) potentiates the anticancer activity of paclitaxel due to its inhibitory effect on the efflux function of ABCB1, TTT-28 enhances the inhibitory effect of paclitaxel on the growth of SW620/Ad300 tumor and promoted apoptosis.       |

### Solubility Information

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

#### Preparing Stock Solutions

|       | 1mg      | 5mg      | 10mg      |
|-------|----------|----------|-----------|
| 1 mM  | 1.743 mL | 8.716 mL | 17.432 mL |
| 5 mM  | 0.349 mL | 1.743 mL | 3.486 mL  |
| 10 mM | 0.174 mL | 0.872 mL | 1.743 mL  |
| 50 mM | 0.035 mL | 0.174 mL | 0.349 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. Wang YJ, et al. Thiazole-valine peptidomimetic (TTT-28) antagonizes multidrug resistance in vitro and in vivo by selectively inhibiting the efflux activity of ABCB1. *Sci Rep.* 2017 Feb 9;7:42106.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

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