

## P-gp inhibitor 13

## Chemical Properties

CAS No. :

Formula: C<sub>32</sub>H<sub>34</sub>O<sub>8</sub>

Molecular Weight: 546.61

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year

Actual storage temperature shall be subject to the COA.

## Biological Description

|               |   |
|---------------|---|
| Description   | P-gp Inhibitor 13, a P-glycoprotein antagonist, can counteract paclitaxel resistance in A2780/T cells, proving valuable for advanced acute myeloid leukemia research [1].   |
| Targets(IC50) | Others,P-gp   |
| In vitro      | P-gp inhibitor 13 (Compound 27f) significantly chemosensitized A2780/T cells with an IC <sub>50</sub> of 0.010 μM [1], increased paclitaxel and rhodamine 123 accumulation by inhibiting P-gp to reverse multidrug resistance (MDR) [1], exhibited minimal cardiotoxicity [1], and showed concentration-dependent MDR reversal at 2.5, 5, 10, and 20 μM in A2780/T cells [1]. |

## Preparing Stock Solutions

|       | 1mg       | 5mg       | 10mg       |
|-------|-----------|-----------|------------|
| 1 mM  | 1.8295 mL | 9.1473 mL | 18.2946 mL |
| 5 mM  | 0.3659 mL | 1.8295 mL | 3.6589 mL  |
| 10 mM | 0.1829 mL | 0.9147 mL | 1.8295 mL  |
| 50 mM | 0.0366 mL | 0.1829 mL | 0.3659 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

**Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins**

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

Tel:781-999-4286 E\_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481