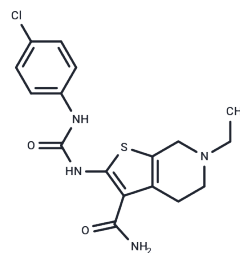


## PROTO-1

### Chemical Properties

CAS No. : 312951-85-2  
Formula: C<sub>17</sub>H<sub>19</sub>ClN<sub>4</sub>O<sub>2</sub>S  
Molecular Weight: 378.88  
Appearance: no data available  
Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year



### Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | PROTO-1 displays obviously protection of hair cells, with HC50(concentration that would produce 50% hair cell survival) of 1 μM-10 μM (1 μM≤HC50≤10 μM).                                                                                                                                                                                                              |
| Targets(IC50) | Others                                                                                                                                                                                                                                                                                                                                                                |
| In vitro      | PROTO-1 shows significant protection of hair cells over a broad range of neomycin concentrations, from 25 μM to 400 μM. Pretreatment with PROTO-1( 1 and 10 μM) causes significant protection of hair cells exposed to 200 μM neomycin compared to neomycin alone. PROTO-1 protection against neomycin is tested at 4 mM neomycin and showed significant striolar [2] |

### Solubility Information

|            |                                                                                                                           |
|------------|---------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 125 mg/mL (329.92 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---------------------------------------------------------------------------------------------------------------------------|

### Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.6394 mL | 13.1968 mL | 26.3936 mL |
| 5 mM  | 0.5279 mL | 2.6394 mL  | 5.2787 mL  |
| 10 mM | 0.2639 mL | 1.3197 mL  | 2.6394 mL  |
| 50 mM | 0.0528 mL | 0.2639 mL  | 0.5279 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.

### Reference

Rubel, et al. COMPOUNDS AND METHODS FOR PREVENTING, TREATING AND/OR PROTECTING AGAINST SENSORY HAIR CELL DEATH

**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:36 Washington Street,Wellesley Hills,MA 02481