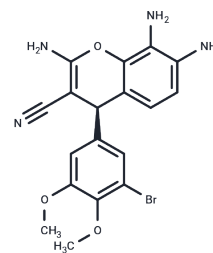


## Crolibulin

## Chemical Properties

|                   |   |
|-------------------|---|
| CAS No. :         | 1000852-17-4  |
| Formula:          | C <sub>18</sub> H <sub>17</sub> BrN <sub>4</sub> O <sub>3</sub>   |
| Molecular Weight: | 417.26  |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year<br>Actual storage temperature shall be subject to the COA. |



## Biological Description

|               |   |
|---------------|---|
| Description   | Crolibulin (EPC2407) is an inhibitor of small molecule tubulin polymerization.  |
| Targets(IC50) | Apoptosis, Microtubule Associated   |
| In vitro      | Crolibulin demonstrates notable cytotoxic effects on HT-29 cells, achieving an IC <sub>50</sub> value of 0.52 μM[2]. It is effective against a range of experimental tumors and significantly inhibits mitosis during the G <sub>2</sub> /M phase[2]. |

## Solubility Information

|            |   |
|------------|---|
| Solubility | DMSO: 120 mg/mL (287.59 mM), Sonication and heating are recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|---|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.3966 mL | 11.9829 mL | 23.9659 mL |
| 5 mM  | 0.4793 mL | 2.3966 mL  | 4.7932 mL  |
| 10 mM | 0.2397 mL | 1.1983 mL  | 2.3966 mL  |
| 50 mM | 0.0479 mL | 0.2397 mL  | 0.4793 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.

Reference

Kalmuk J, et al. Multimodal imaging guided preclinical trials of vascular targeting in prostate cancer. Oncotarget. 2015 Sep 15;6(27):24376-92.

Zhai X, et al. Discovery and Optimization of Novel 5-Indolyl-7-arylimidazo[1,2-a]pyridine-8-carbonitrile Derivatives as Potent Antitubulin Agents Targeting Colchicine-binding Site. Sci Rep. 2017 Feb 27;7:43398.

**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