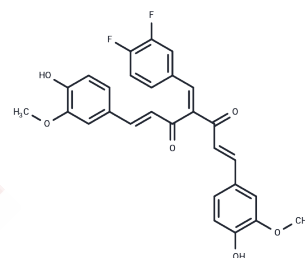


## 4-(3,4-Difluorobenzo)curcumin

## Chemical Properties

|                   |                                                                                                                     |
|-------------------|---------------------------------------------------------------------------------------------------------------------|
| CAS No. :         | 1170354-22-9                                                                                                        |
| Formula:          | C <sub>28</sub> H <sub>22</sub> F <sub>2</sub> O <sub>6</sub>                                                       |
| Molecular Weight: | 492.50                                                                                                              |
| 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   | 4-(3,4-Difluorobenzo)curcumin (CDF) is a semisynthetic coumarin noted for its antiparasitic and anticancer properties. It effectively reduces the population of Vero cells infected by <i>T. gondii</i> promastigotes and amastigotes, with EC <sub>50</sub> values of 0.8 and 0.37 μM, respectively. Furthermore, at concentrations of 4 and 8 μM, CDF enhances the efficacy of 5-fluorouracil and oxaliplatin in inhibiting the formation of both primary and secondary colonospheres in chemoresistant HCT116 cells. |
| Targets(IC50) | Others,ROS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |

## Solubility Information

|            |                                                                                                                                                                              |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMF: 10 mg/mL (20.3 mM),Sonication is recommended.<br>DMSO: 10 mg/mL (20.3 mM),Sonication is recommended.<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 2.0305 mL | 10.1523 mL | 20.3046 mL |
| 5 mM  | 0.4061 mL | 2.0305 mL  | 4.0609 mL  |
| 10 mM | 0.203 mL  | 1.0152 mL  | 2.0305 mL  |
| 50 mM | 0.0406 mL | 0.203 mL   | 0.4061 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

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