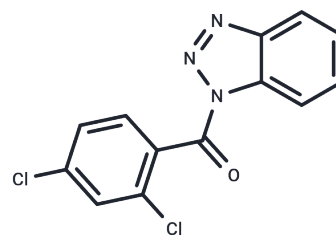


## ITSA-1

## Chemical Properties

|                   |                                                                 |
|-------------------|-----------------------------------------------------------------|
| CAS No. :         | 200626-61-5                                                     |
| Formula:          | C <sub>13</sub> H <sub>7</sub> Cl <sub>2</sub> N <sub>3</sub> O |
| Molecular Weight: | 292.12                                                          |
| Appearance:       | no data available                                               |
| Storage:          | Powder: -20°C for 3 years   In solvent: -80°C for 1 year        |



## Biological Description

|               |                                                                                                                                                                                                                                                                                                                                                                                       |
|---------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description   | ITSA-1 is membrane permeable and specifically suppresses TSA inhibition of HDAC (histone deacetylase), but shows no activity towards other HDAC inhibitors.                                                                                                                                                                                                                           |
| Targets(IC50) | HDAC                                                                                                                                                                                                                                                                                                                                                                                  |
| Cell Research | A549 cells ( 75% confluent) in 10-cm dishes are treated with DMSO (0.1%), TSA (500 nM), or tubacin (2 µM) for 4.5 h, and then either DMSO (0.1%) or ITSA1 (50 µM) is added for an additional 17.5 h. Samples are rinsed in PBS, trypsinized, and fixed for 2 h in 70% ethanol 30% PBS (4°C). Cells then are washed once in PBS and stored overnight in PBS (4°C).(Only for Reference) |

## Solubility Information

|            |                                                                                                                                                                                              |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Solubility | DMSO: 54 mg/mL (184.9 mM),<br>H <sub>2</sub> O: < 1 mg/mL (insoluble or slightly soluble),<br>Ethanol: 5 mg/mL (17.12 mM),<br>< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Preparing Stock Solutions

|       | 1mg       | 5mg        | 10mg       |
|-------|-----------|------------|------------|
| 1 mM  | 3.4233 mL | 17.1163 mL | 34.2325 mL |
| 5 mM  | 0.6847 mL | 3.4233 mL  | 6.8465 mL  |
| 10 mM | 0.3423 mL | 1.7116 mL  | 3.4233 mL  |
| 50 mM | 0.0685 mL | 0.3423 mL  | 0.6847 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

Koeller KM, et al. Chem Biol. 2003 May;10(5):397-410.

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