

GSK J5

**Chemical Properties**

|                   |  |
|-------------------|--|
| CAS No.:          | 1394854-51-3   |
| Formula:          | C <sub>24</sub> H <sub>27</sub> N <sub>5</sub> O <sub>2</sub>          |
| Molecular Weight: | 417.5  |
| Appearance:       | N/A  |
| Storage:          | 0-4°C for short term (days to weeks), or -20°C for long term (months). |

**Biological Description**

|             |  |
|-------------|--|
| Description | GSK J5 is an inactive isomer of GSK J4 and a cell-permeable ester derivative of inactive control GSK J2.   |
| In vitro    | KDM6B-specific pharmacological inhibitor GSK-J4 had a significant anti-proliferative effect in AML cell lines and freshly isolated BM monocytes (MNCs) from AML patients, while H3K27me3 levels were also increasing. GSK-J4 also caused apoptosis and cell cycle arrest in vitro, and reduced tumor burden in vivo in AML xenograft mouse models.   |
| In vivo     | It is worth noting that the injection of GSK-J4 attenuated disease progression in a human AML xenograft mouse model. Treatment with GSK-J4 mainly resulted in the downregulation of DNA replication and cell cycle-related pathways and prevents the expression of HOX, a key cancer gene. ChIP-qPCR verified the increased H3K27me3 enrichment in the HOX gene transcription initiation site [1]. |

**Solubility Information**

|            |  |
|------------|--|
| Solubility | Ethanol: <41.75mg/ml<br>DMSO: <41.75mg/mL<br>(< 1 mg/ml refers to the product slightly soluble or insoluble) |
|------------|--|

## Preparing Stock Solutions

|       | 1mg      | 5mg       | 10mg      |
|-------|----------|-----------|-----------|
| 1 mM  | 2.395 mL | 11.976 mL | 23.952 mL |
| 5 mM  | 0.479 mL | 2.395 mL  | 4.79 mL   |
| 10 mM | 0.24 mL  | 1.198 mL  | 2.395 mL  |
| 50 mM | 0.048 mL | 0.24 mL   | 0.479 mL  |

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Inhibitors · Natural Compounds · Compound Libraries

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

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