Product Name: GSK1324726A

**Chemical Properties**

- **Product Name:** GSK1324726A
- **Cas No.:** 1300031-52-0
- **M.Wt:** 434.91
- **Formula:** C25H23ClN2O3

**Chemical Name:**

- **Canonical SMILES:** OC(C(C1)=CC=C1C2=CC3=C(C=C2)N(C(C)=O)[C@@H](C)C[C@H]3N\n  C4=CC=C(Cl)C=C4)=O

**Solubility:** ≥17.7mg/mL in DMSO

**Storage:** Store at -20°C

**General tips:** For obtaining a higher solubility, please warm the tube at 37°C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

**Shopping Condition:**
- Evaluation sample solution: ship with blue ice
- All other available size: ship with RT, or blue ice upon request

**Biological Activity**

**Targets:** Chromatin/Epigenetics

**Pathways:** Bromodomain

**Description:**

GSK1324726A is a selective small molecule inhibitor of BET proteins with IC50 values of 41nM, 31nM and 22nM, respectively for BRD2, BRD3 and BRD4 [1]. GSK1324726A competes with histone H4 peptides for binding to the bromodomains of the BET proteins. It notably inhibits cell growth in neuroblastoma cell lines with a median GI50 value of 75nM. And it is also found to cause some level of net cell death. The mechanism of this is that GSK1324726A induces cytotoxicity in these cell lines. Treatment of GSK1324726A results in an induction of G1 arrest in SK–N-AS, SK–N-SH and CHP-212 cell lines. Meanwhile, caspase 3/7
induction is observed in SK–N–SH and CHP-212 cell lines. In mice bearing the neuroblastoma xenografts, GSK1324726A also shows the potency of inhibiting tumor growth [1].

Reference:

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most ApexBio products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.