**Product Data Sheet**

### Chemical Properties

**Product Name:** GSK1070916  
**Cas No.:** 942918-07-2  
**M.Wt:** 507.63  
**Formula:** C30H33N7O  
**Chemical Name:** 3-[4-([4-(2-[3-([dimethylamino)methyl]phenyl]-1H-pyrrolo[2,3-b]pyridin-4-yl]-1-ethylpyrazol-3-yl]phenyl]-1,1-dimethylurea  
**Canonical SMILES:** CCN1C(C(=N1)C2=CC=C(C=C2)NC(=O)N(C)C)C3=C4C=C(NC4=NC=NC3)C5=CC(=CC=C5)CN(C)C  
**Solubility:** ≥25.4mg/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:** Aurora Kinase  
**Pathways:**

**Description:**

GSK1070916 is a potent and selective inhibitor of Aurora B/C Kinase with Ki values of 0.38nM and 1.5nM, respectively [1]. GSK1070916 is a reversible ATP-competitive inhibitor of Aurora B and Aurora C with Ki values of 0.38nM and 1.5nM, respectively. The SPA assay shows GSK1070916 has a good selectivity over Aurora A. It inhibits Aurora B with IC50 value of 5nM but 1259nM for Aurora A. It is also reported that treatment of GSK1070916 suppresses cell proliferation in A549 human lung cancer cells with
EC50 value of 7nM. Moreover, both in vitro and in vivo assays demonstrate GSK1070916 can inhibit the phosphorylation of histone H3, which is a substrate of Aurora B. GSK1070916 can also suppress tumor growth in mice with HL-60 tumor xenografts [1].

Reference:

Caution

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. Short-term 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.