**Product Specification Sheet**

**Product Name:** GDC-0941  

**Catalog Number:** C4321-5 (powder)  
C4321-5s (10mM in DMSO)

**Package Size:** 5 mg

**Technical Information:**
- **Chemical Formula:** C_{23}H_{27}N_{7}O_{5}S_{2}  
- **CAS #:** 957054-30-7  
- **Molecular Weight:** 513.64  
- **Purity:** >98%  
- **Formulation:** White solid  
- **Solubility:** Soluble in DMSO up to 100 mM  
- **Chemical Name:** 4-(2-(1H-indazol-4-yl)-6-((4-(methylsulfonyl)piperazin-1-yl)methyl)thieno[3,2-d]pyrimidin-4-yl)morpholine  
- **Storage:** Store solid powder at 4°C desiccated; Store DMSO solution at -20°C.

**Handling:**
- For C4321-5 (powder), add 973 μL of DMSO to make 10 mM solution.  
- For C4321-5s, before open the vial, centrifuge the vial at 500rpm x 1 min in a 50 mL conical tube to ensure full sample recovery.

**Biological Activity:** GDC-0941 is a highly potent and selective class I PI3K kinase inhibitor under development. Its IC50 values for for PI3K p110 α, β, δ and γ isoforms are 3nM, 33nM, 3nM, 75nM, and for DNA-PK and mTOR are 1230nM and 580nM. It is now in phase I clinical trials targeting several advanced or metastatic solid tumors.

**Reference:**

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