



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

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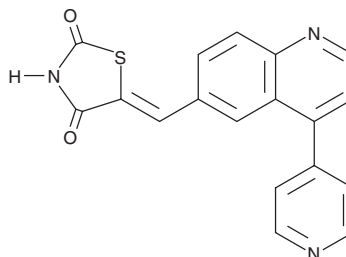
# Product Information



**GSK1059615**

Item No. 11569

**CAS Registry No.:** 958852-01-2  
**Formal Name:** 5Z-[[4-(4-pyridinyl)-6-quinolinyl]methylene]-2,4-thiazolidinedione  
**MF:** C<sub>18</sub>H<sub>11</sub>N<sub>3</sub>O<sub>2</sub>S  
**FW:** 333.4  
**Purity:** ≥98%  
**Stability:** ≥2 years at -20°C  
**Supplied as:** A crystalline solid  
**UV/Vis.:** λ<sub>max</sub>: 295, 345 nm



## Laboratory Procedures

For long term storage, we suggest that GSK1059615 be stored as supplied at -20°C. It should be stable for at least two years.

GSK1059615 is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK1059615 in the solvent of choice. GSK1059615 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of GSK1059615 in these solvents is approximately 3 and 2.5 mg/ml, respectively.

GSK1059615 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GSK1059615 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. GSK1059615 has a solubility of approximately 0.5 mg/ml in a 1:1 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

PI 3-kinase  $\alpha$  (PI3K $\alpha$ ) is a critical regulator of cell growth and transformation. Its signaling pathway is the most commonly mutated pathway in human cancers. GSK1059615 is a potent, reversible, ATP-competitive, thiazolidinedione inhibitor of PI3K $\alpha$  (IC<sub>50</sub> = 2 nM) and the common activating mutants of p110 $\alpha$  (E542K, E545K, and H1047R) found in cancer.<sup>1,2</sup> It prevents proliferation in BT474 tumor xenografts and reduces MAPK signaling following twice daily dosing at 25 mg/kg.<sup>1</sup>

## References

1. Knight, S.D., Adams, N.D., Burgess, J.L., *et al.* Discovery of GSK2126458, a highly potent inhibitor of P13K and the mammalian target of rapamycin. *ACS Med. Chem. Lett.* **1**, 39-43 (2010).
2. Aziz, S.A., Davies, M., Pick, E., *et al.* Phosphatidylinositol-3-kinase as a therapeutic target in melanoma. *Clin. Cancer Res.* **15**, 3029-3036 (2009).

**WARNING: THIS PRODUCT IS FOR LABORATORY RESEARCH ONLY; NOT FOR ADMINISTRATION TO HUMANS. NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.**

### SAFETY DATA

This material should be considered hazardous until information to the contrary becomes available. Do not ingest, swallow, or inhale. Do not get in eyes, on skin, or on clothing. Wash thoroughly after handling. This information contains some, but not all, of the information required for the safe and proper use of this material. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

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Said refund or replacement is conditioned on Buyer giving written notice to Cayman within thirty (30) days after arrival of the material at its destination. Failure of Buyer to give said notice within thirty (30) days shall constitute a waiver by Buyer of all claims hereunder with respect to said material.

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