



# SZABO SCANDIC

Part of Europa Biosite

## Produktinformation



Forschungsprodukte & Biochemikalien



Zellkultur & Verbrauchsmaterial



Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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### Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

### Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

### SZABO-SCANDIC HandelsgmbH

Quellenstraße 110, A-1100 Wien

T. +43(0)1 489 3961-0

F. +43(0)1 489 3961-7

[mail@szabo-scandic.com](mailto:mail@szabo-scandic.com)

[www.szabo-scandic.com](http://www.szabo-scandic.com)

[linkedin.com/company/szaboscandic](https://www.linkedin.com/company/szaboscandic) 

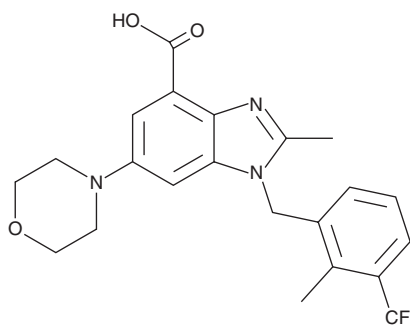
# PRODUCT INFORMATION



**GSK2636771**

Item No. 17380

**CAS Registry No.:** 1372540-25-4  
**Formal Name:** 2-methyl-1-[[2-methyl-3-(trifluoromethyl)phenyl]methyl]-6-(4-morpholinyl)-1H-benzimidazole-4-carboxylic acid  
**MF:** C<sub>22</sub>H<sub>22</sub>F<sub>3</sub>N<sub>3</sub>O<sub>3</sub>  
**FW:** 433.4  
**Purity:** ≥98%  
**UV/Vis.:** λ<sub>max</sub>: 245, 345 nm  
**Supplied as:** A crystalline solid  
**Storage:** -20°C  
**Stability:** ≥4 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

## Laboratory Procedures

GSK2636771 is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK2636771 in the solvent of choice, which should be purged with an inert gas. GSK2636771 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of GSK2636771 in these solvents is approximately 30 mg/ml.

GSK2636771 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GSK2636771 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. GSK2636771 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

Phosphatidylinositol 3-kinase (PI3K) catalyzes the phosphorylation of phosphatidylinositol at the 3 position to produce the second messengers phosphatidylinositol-3,4-bisphosphate (PtdIns-(3,4)-P<sub>2</sub>) and PtdIns-(3,4,5)-P<sub>3</sub>. Class 1 PI3Ks are composed of a p110 catalytic subunit, of which there are four isoforms (p110α, p110β, p110δ, and p110γ), and a p85 regulatory subunit. GSK2636771 is an orally bioavailable inhibitor of PI3K p110β.<sup>1</sup> At 1-10 μM, it decreases cell viability and Akt phosphorylation in p110β-dependent PTEN-deficient PC-3 prostate and BT549 and HCC70 breast cancer cell lines.<sup>2</sup>

## References

- Rivero, R.A. and Hardwicke, M.A. Abstract 2913: Identification of GSK263771, a potent and selective, orally bioavailable inhibitor of the phosphatidylinositol 3-kinase-beta (PI3Kα) for the treatment of PTEN deficient tumors. *Cancer Res.* **72**, 2913 (2012).
- Weigelt, B., Warne, P.H., Lambros, M.B., et al. PI3K pathway dependencies in endometrioid endometrial cancer cell lines. *Clin. Cancer Res.* **19(13)**, 3533-3544 (2013).

### WARNING

THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

### SAFETY DATA

This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent via email to your institution.

### WARRANTY AND LIMITATION OF REMEDY

Buyer agrees to purchase the material subject to Cayman's Terms and Conditions. Complete Terms and Conditions including Warranty and Limitation of Liability information can be found on our website.

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## CAYMAN CHEMICAL

1180 EAST ELLSWORTH RD  
ANN ARBOR, MI 48108 · USA

**PHONE:** [800] 364-9897  
[734] 971-3335

**FAX:** [734] 971-3640

CUSTSERV@CAYMANCHEM.COM  
WWW.CAYMANCHEM.COM