



# SZABO SCANDIC

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## Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



Laborgeräte & Service

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- Expressversand

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# PRODUCT INFORMATION



**GSK2656157**

Item No. 17372

**CAS Registry No.:** 1337532-29-2

**Formal Name:** 1-[5-(4-amino-7-methyl-7H-pyrrolo[2,3-d]pyrimidin-5-yl)-4-fluoro-2,3-dihydro-1H-indol-1-yl]-2-(6-methyl-2-pyridinyl)-ethanone

**MF:** C<sub>23</sub>H<sub>21</sub>FN<sub>6</sub>O

**FW:** 416.5

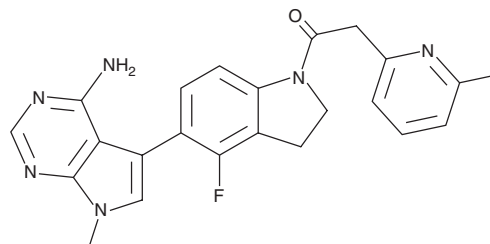
**Purity:** ≥98%

**UV/Vis.:** λ<sub>max</sub>: 287 nm

**Supplied as:** A crystalline solid

**Storage:** -20°C

**Stability:** As supplied, 2 years from the QC date provided on the Certificate of Analysis, when stored properly



## Laboratory Procedures

GSK2656157 is supplied as a crystalline solid. A stock solution may be made by dissolving the GSK2656157 in the solvent of choice. GSK2656157 is soluble in organic solvents such as ethanol, DMSO, and dimethyl formamide (DMF), which should be purged with an inert gas. The solubility of GSK2656157 in ethanol is approximately 2 mg/ml and 10 mg/ml in DMSO and DMF.

GSK2656157 is sparingly soluble in aqueous buffers. For maximum solubility in aqueous buffers, GSK2656157 should first be dissolved in DMSO and then diluted with the aqueous buffer of choice. GSK2656157 has a solubility of approximately 0.25 mg/ml in a 1:3 solution of DMSO:PBS (pH 7.2) using this method. We do not recommend storing the aqueous solution for more than one day.

## Description

GSK2656157 is an inhibitor of protein kinase R (PKR)-like endoplasmic reticulum kinase (PERK; IC<sub>50</sub> = 0.9 nM).<sup>1,2</sup> It is selective for PERK over a panel of additional kinases.<sup>1</sup> GSK2656157 blocks both stress-induced PERK autophosphorylation and eIF2α substrate phosphorylation and decreases levels of ATF4 and CHOP in multiple cell lines.<sup>1</sup> It is orally bioavailable, suppressing PERK autophosphorylation in mouse pancreas and inhibiting the growth of multiple human tumor xenografts in mice.<sup>1,2</sup> GSK 2656157 inhibits caspase 1 activation in macrophage-like J774.1 cells, preventing LPS-induced IL-1β production, through its effects on the PERK/eIF2α pathway.<sup>3</sup>

## References

1. Atkins, C., Minthorn, E., Zhang, S-Y., *et al.* Characterization of a Novel PERK Kinase Inhibitor with Antitumor and Antiangiogenic Activity. *Cancer Res.* **73(6)**, 1993-2002 (2012).
2. Axten, J., Romeril, S., Shu, A., *et al.* Discovery of GSK2656157: An Optimized PERK Inhibitor Selected for Preclinical Development. *ASC Med. Chem. Lett.* **4**, 964-968, (2013).
3. Ando, T., Komatsu, T., Naiki, Y., *et al.* GSK2656157, a PERK inhibitor, reduced LPS-induced IL-1β production through inhibiting Caspase 1 activation in macrophagelike J774.1 cells. *Immunopharmacol. Immunotoxicol.* **38(4)**, 298-302 (2016).

### 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.

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