SZABO SCANDIC

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# Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

Weitere Information auf den folgenden Seiten!
See the following pages for more information!

## Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

## Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand


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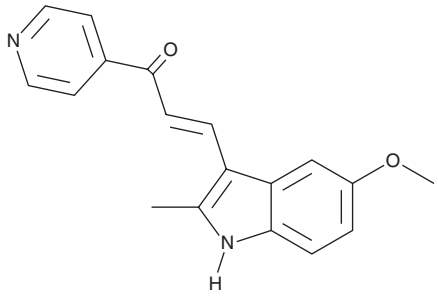
# PRODUCT INFORMATION

## MOMIPP

*Item No. 39671*

| | |
|---|---|
| **CAS Registry No.:** | 1363421-46-8 |
| **Formal Name:** | (2E)-3-(5-methoxy-2-methyl-1H-indol-3-yl)-1-(4-pyridinyl)-2-propen-1-one |
| **MF:** | $C_{18}H_{16}N_2O_2$ |
| **FW:** | 292.3 |
| **Purity:** | ≥98% |
| **Supplied as:** | A 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

MOMIPP is supplied as a solid. A stock solution may be made by dissolving the MOMIPP in the solvent of choice, which should be purged with an inert gas. MOMIPP is soluble in organic solvents such as DMSO. MOMIPP is slightly soluble in acetonitrile and methanol.

### Description

MOMIPP is an inhibitor of PIKfyve ($IC_{50}$ = 5.05 nM).[1] It selectively binds to PIKfyve over phosphatidylinositol 4-phosphate 5-kinase type-1 γ (PIP5K1C; $K_d$s = 5.3 and >15,000 nM, respectively). MOMIPP (10 µM) induces vacuolization and cell lysis, markers of methuosis, and decreases the extracellular acidification rate (ECAR), indicating inhibition of glycolytic flux, but not the oxygen consumption rate (OCR), in U251 glioblastoma cells.[2] Intraperitoneal administration of MOMIPP (80 mg/kg) decreases tumor growth in a U251 orthotopic mouse xenograft model.

### References


1. Cho, H., Geno, E., Patoor, M., *et al.* Indolyl-pyridinyl-propenone-induced methuosis through the inhibition of PIKFYVE. *ACS Omega* **3(6)**, 6097-6103 (2018).
2. Li, Z., Mbah, N.E., Overmeyer, J.H., *et al.* The JNK signaling pathway plays a key role in methuosis (non-apoptotic cell death) induced by MOMIPP in glioblastoma. *BMC Cancer* **19(1)**, 77 (2019).





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