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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

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PRODUCT INFORMATION



IWP-O1

Item No. 38418

CAS Registry No.: 2074607-48-8
Formal Name: 5-phenyl-N-(5-phenyl-2-pyridinyl)-4-(4-pyridinyl)-1H-1,2,3-triazole-1-acetamide

Synonym: Inhibitor of Wnt Production-O1

MF: C₂₆H₂₀N₆O

FW: 432.5

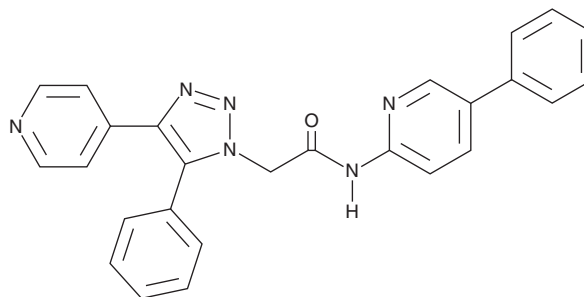
Purity: ≥98%

UV/Vis.: λ_{max}: 268 nm

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

IWP-O1 is supplied as a solid. A stock solution may be made by dissolving the IWP-O1 in the solvent of choice, which should be purged with an inert gas. IWP-O1 is soluble in organic solvents such as DMSO and dimethyl formamide. The solubility of IWP-O1 in these solvents is approximately 10 mg/ml.

Description

IWP-O1 is an inhibitor of porcupine (PORCN), an enzyme that catalyzes palmitoylation of Wnt proteins.¹ It inhibits Wnt signaling in L-Wnt-STF cells (IC₅₀ = 80 pM in a reporter assay) and phosphorylation of Dishevelled-2 (Dvl2) and Dvl3 in HeLa cells when used at a concentration of 1 μM. IWP-O1 (1 μM) enhances the cytotoxicity of the glycolysis inhibitors 2-deoxyglucose (2-DG) and lonidamine (Item No. 14640) in CAL 27 oral squamous cell carcinoma (OSCC) cells.²

References

1. You, L., Zhang, C., Yarravarapu, N., *et al.* Development of a triazole class of highly potent Porcn inhibitors. *Bioorg. Med. Chem. Lett.* **26(24)**, 5891-5895 (2016).
2. Kleszcz, R. and Paluszczak, J. The Wnt signaling pathway inhibitors improve the therapeutic activity of glycolysis modulators against tongue cancer cells. *Int. J. Mol. Sci.* **23(3)**, 1248 (2022).

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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