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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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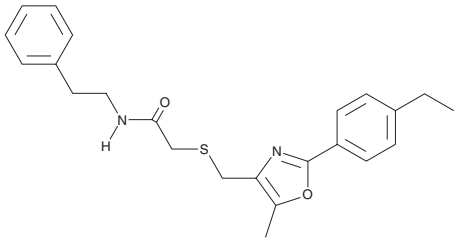
PRODUCT INFORMATION

iCRT3

Item No. 40836

CAS Registry No.:	901751-47-1
Formal Name:	2-[[[2-(4-ethylphenyl)-5-methyl-4-oxazolyl]methyl]thio]-N-(2-phenylethyl)-acetamide
MF:	$C_{23}H_{26}N_2O_2S$
FW:	394.5
Purity:	≥95%
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

iCRT3 is supplied as a solid. A stock solution may be made by dissolving the iCRT3 in the solvent of choice, which should be purged with an inert gas. iCRT3 is soluble (≥10 mg/ml) in ethanol and DMSO.

Description

iCRT3 is an inhibitor of β-catenin-responsive transcription (CRT).[1] It inhibits Wnt signaling in a reporter assay using HEK293 cells (IC_{50} = 8.2 nM). It is selective for inhibition of the protein-protein interaction between β-catenin and T cell factor (Tcf) over the interaction between β-catenin and epithelial cadherin (E-cadherin) or α-catenin. iCRT3 (50 µM) inhibits neurotensin- or Wnt3a-induced increases in the proliferation of A172 and U87 glioblastoma cells.[2] It also reduces tumor growth in an A172 mouse xenograft model when administered at a dose of 5 mg/kg. iCRT3 (5 and 10 mg/kg) reduces plasma levels of IL-6, TNF-α, and IL-1β, as well as the general organ damage marker aspartate aminotransferase (AST) and the liver damage marker alanine transaminase (ALT) in a mouse model of cecal ligation and puncture-induced sepsis.[3] It also reduces lung cell apoptosis and the severity of sepsis-induced lung injury in the same model when administered at a dose of 10 mg/kg.

References

1. Gonsalves, F.C., Klein, K.O., Carson, B.B., *et al.* An RNAi-based chemical genetic screen identifies three small-molecule inhibitors of the Wnt/wingless signaling pathway. *Proc. Natl. Acad. Sci. USA* **108(15)**, 5954-5963 (2011).
2. Xiao, H., Zeng, Y., Wang, Q., *et al.* A novel positive feedback loop between NTSR1 and Wnt/β-Catenin contributes to tumor growth of glioblastoma. *Cell. Physiol. Biochem.* **43(5)**, 2133-2142 (2017).
3. Sharma, A., Yang, W.-L., Ochani, M., *et al.* Mitigation of sepsis-induced inflammatory responses and organ injury through targeting Wnt/β-catenin signaling. *Sci. Rep.* **7(1)**, 9235 (2017).

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