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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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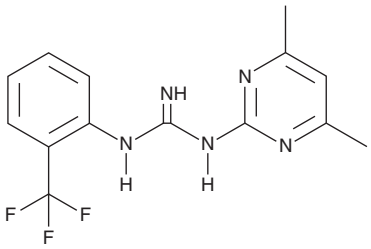
PRODUCT INFORMATION

ZINC69391

Item No. 41860

CAS Registry No.:	303094-67-9
Formal Name:	N-(4,6-dimethyl-2-pyrimidinyl)-N′-[2-(trifluoromethyl)phenyl]-guanidine
MF:	$C_{14}H_{14}F_3N_5$
FW:	309.3
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

ZINC69391 is supplied as a solid. A stock solution may be made by dissolving the ZINC69391 in the solvent of choice, which should be purged with an inert gas. ZINC69391 is sparingly soluble (1-10 mg/ml) in ethanol and soluble (≥10 mg/ml) in DMSO.

Description

ZINC69391 is an inhibitor of the protein-protein interaction between Rac1 and the Rho guanine nucleotide exchange factor TIAM1.[1] It inhibits the interaction between Rac1 and TIAM1 in a cell-free assay when used at a concentration of 200 µM. ZINC69391 is also active against chloroquine-resistant and -susceptible strains of *P. falciparum* (IC_{50s} = 17.56 and 12.56, respectively).[2] It inhibits the proliferation of MDA-MB-231, F3II, and MCF-7 breast cancer cells (IC_{50}s = 48, 61, and 31 µM, respectively).[1] ZINC69391 (10 µM) induces cell cycle arrest at the G_1 phase in MDA-MB-231 cells. It inhibits EGF-induced actin polymerization in, and the migration and invasion of, MDA-MB-231 and F3II cells when used at a concentration of 50 µM. *In vivo*, ZINC69391 (25 mg/kg per day) reduces the number of lung nodules in an F3II murine model of lung metastasis when administered at a dose of 25 mg/kg per day.

References

1. Cardama, G.A., Comin, M.J., Hornos, L., *et al.* Preclinical development of novel Rac1-GEF signaling inhibitors using a rational design approach in highly aggressive breast cancer cell lines. *Anticancer Agents Med. Chem.* **14(6)**, 840-851 (2014).
2. Parapini, S., Paone, S., Erba, E., *et al. In vitro* antimalarial activity of inhibitors of the human GTPase Rac1. *Antimicrob. Agents Chemother.* **66(1)**, e0149821 (2022).

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