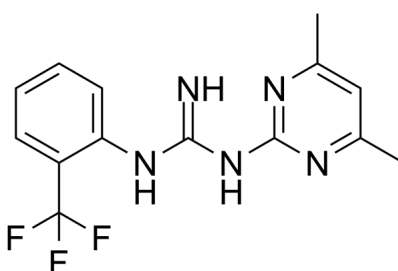


Certificate of Analysis

Catalog Number	BP13597
Product Name	ZINC69391

Physical and Chemical Properties

Synonyms	ZINC-69391, ZINC 69391
CAS No.	303094-67-9
Chemical Formula	C ₁₄ H ₁₄ F ₃ N ₅
Molecular Weight	309.296
Solubility	DMSO: 20 mg/mL (64.66 mM), ultrasonic and warming and heat to 60°C
Storage	Powder: -20°C for 2 years In solvent: -80°C for 1 year
Chemical Structure OR Tested Image	

Product Information

Description	ZINC69391 is a selective inhibitor of Rac1 with antiproliferative and antimetastatic effects. ZINC69391 interferes with the interaction of Rac1 with Dock180, reduces Rac1-GTP levels and induces apoptosis.
In vitro	In U-87 MG and LN229 cells, ZINC69391 (0-125 μ M) reduces cell proliferation of human glioma cells. ZINC69391 (50-100 μ M) triggers cell cycle arrest. ZINC69391 inhibits the growth of U937, HL-60, KG1A, and Jurkat cells (IC50s = 41-54 μ M). In HL-60, U937, and KG1A cell lines, ZINC69391 (50 μ M) triggers an increase in apoptotic cells. In LN229 cells, ZINC69391 (50 and 100 μ M) augments the enzymatic activity of caspase 3 and increases the percentage of cells in the sub-G0/G1 phase in a concentration-dependent manner.
In vivo	In specific pathogen-free female BALB/c inbred mice (bearing F3II cells), ZINC69391 (25 mg/kg; i.p) impairs metastatic lung colonization and reduces by about 60% the formation of total metastatic lung colonies.

Analytical Data

HPLC	Shows Min >99% purity
H-NMR	Consistent with structure
Stability and Solubility Advice	Information on product stability, especially in solution, has rarely been reported and in most cases we can only provide a general guideline. We recommend that once the stock solution has been prepared, it be stored in equal quantities in sealed vials and used within 1 month. Avoid repeated freezing and thawing cycles. Storage conditions for some special products should be referred to their storage details.

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