

Product Name: NCT 02

Catalog No.: 7551

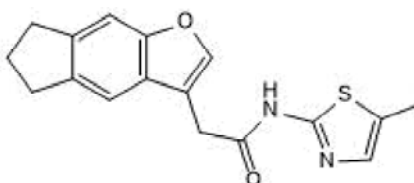
Batch No.: 1

CAS Number: 790245-61-3

IUPAC Name: 6,7-Dihydro-*N*-(5-methyl-2-thiazolyl)-5*H*-indeno[5,6-*b*]furan-3-acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₆N₂O₂S.
Batch Molecular Weight: 312.39
Physical Appearance: Beige solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98.9% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	65.36	5.16	8.97
Found	65.07	5.15	9.1

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

NCT 02 acts as a molecular glue that induces proteasomal degradation of CCNK and CDK12 in colorectal cancer spheroid cells in vitro ($IC_{50} \leq 50 \mu M$). NCT 02 also induces apoptosis and the downregulation of genes involved in DNA damage repair.

Physical and Chemical Properties:

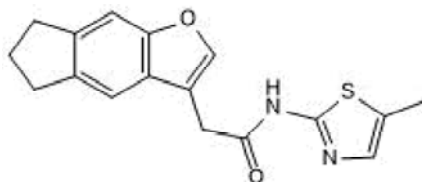
Batch Molecular Formula: $C_{17}H_{16}N_2O_2S$.

Batch Molecular Weight: 312.39

Physical Appearance: Beige solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at $-20^{\circ}C$

Solubility & Usage Info:

DMSO to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Dieter *et al* (2021) Degradation of CCNK/CDK12 is a druggable vulnerability of colorectal cancer. *Cell Rep.* **36** 109394. PMID: 34289372.

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