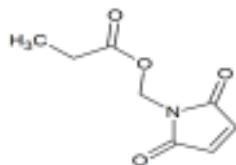


NSC-19630

ALTERNATE NAME: 1-[(1-oxopropoxy)methyl]-1H-pyrrole-2,5-dione
MIRA-1

CATALOG #: B2665-5 5 mg
B2665-25 25 mg

STRUCTURE:



MOLECULAR FORMULA: C₈H₉NO₄

MOLECULAR WEIGHT: 183.16

CAS NUMBER: 72835-26-8

APPEARANCE: White solid

PURITY: ≥98% by HPLC

SOLUBILITY: >15 mg/ml DMSO
>15 mg/ml Ethanol

DESCRIPTION: NSC-19630 (MIRA-1) is a cell-permeable inhibitor of Werner syndrome WRN helicase activity (IC₅₀ = 20 μM) over its ATPase and exonuclease activities, but did not affect other DNA helicases [Bloom syndrome (BLM), Fanconi anemia group J (FANCJ), RECQ1, RecQ, UvrD, or DnaB). Exposure of human cells to NSC 19630 dramatically impairs growth and proliferation, induces apoptosis in a WRN-dependent manner, and results in elevated γ-H2AX and proliferating cell nuclear antigen (PCNA) foci. NSC-19630 exposure leads to delayed S-phase progression, consistent with the accumulation of stalled replication forks, and to DNA damage in a WRN-dependent manner.

STORAGE TEMPERATURE: -20°C. Protect from light

HANDLING: Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.

RELATED PRODUCTS:

NSC-617145 (B2664)
Pritelivir mesylate (B2154)
BAY 57-1293 (2556)
YK-4-279 (2846)

DISCLAIMER: *FOR RESEARCH USE ONLY! Not to be used on humans.*