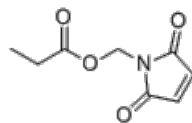


Product Name : NSC 19630
Synonyms : MIRA-1
Cat No. : M15787
CAS Number : 72835-26-8
Molecular Formula : C₈H₉NO₄
Formula Weight : 183.20
Chemical Name : 1-[(1-oxopropoxy)methyl]-1H-pyrrole-2,5-dione



Description : NSC 19630 (MIRA-1) is a potent, selective Werner syndrome helicase (WRN helicase) with IC₅₀ of 20 uM; shows selectivity over human RecQ helicases (RECQ1 and BLM), Fanconi anemia group J (FANCF) helicases and three Escherichia coli helicases (RecQ, UvrD, and DnaB); dramatically impairs growth and proliferation, induces apoptosis in a WRN-dependent manner, and results in elevated γ-H2AX and PCNA foci in human cells; delays S-phase progression and induces DNA damage; a mutant p53 reactivator that induces mutant p53-dependent cell death in different human tumor cells carrying tetracycline-regulated mutant p53.

Pathway : Cell Cycle/DNA Damage

Target : DNA Repair Protein

Receptor : DNA Repair Protein

Solubility : —

SMILES : O=C(C=C1)N(COC(CC)=O)C1=O

Storage : (-20°C)

Stability : ≥ 2 years

Reference :

1. Aggarwal M, et al. Proc Natl Acad Sci U S A. 2011 Jan 25; 108(4):1525-30. | 2. Saha MN, et al. Br J Cancer. 2014 Apr 29; 110(9):2224-31. | 3. Bykov VJ, et al. J Biol Chem. 2005 Aug 26; 280(34):30384-91.