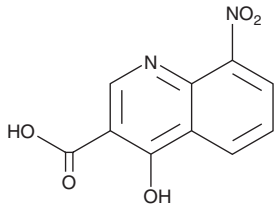
PRODUCT INFORMATION

DNA2 Inhibitor C5

Item No. 46344

CAS Registry No.:	35973-25-2
Formal Name:	4-hydroxy-8-nitro-3-quinolinecarboxylic acid
Synonyms:	4-hydroxy-8-nitroquinoline-3-Carboxylic Acid, NSC 15765
MF:	$C_{10}H_6N_2O_5$
FW:	234.2
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

DNA2 inhibitor C5 is supplied as a solid. A stock solution may be made by dissolving the DNA2 inhibitor C5 in the solvent of choice, which should be purged with an inert gas. DNA2 inhibitor C5 is sparingly soluble (1-10 mg/ml) in DMSO.

Description

DNA2 inhibitor C5 is an inhibitor of the nuclease and helicase DNA2 (IC_{50} = 20 µM).[1] It reduces the proliferation of several cancer cell lines (IC_{50}s = 7.2-95.5 µM) and is synergistic with the DNA topoisomerase I inhibitor camptothecin (Item No. 11694) and the poly(ADP-ribose) polymerase (PARP) inhibitor MK-4827 (Item No. 20842). DNA2 inhibitor C5 also inhibits dengue virus NS5 methyltransferase (IC_{50} = 14.3 µM).[2]

References

1. Liu, W., Zhou, M., Li, Z., *et al*. A selective small molecule DNA2 inhibitor for sensitization of human cancer cells to chemotherapy. *EBioMedicine* **6**, 73-86 (2016).
2. Podvinec, M., Lim, P.S., Schmidt, T., *et al*. Novel inhibitors of dengue virus methyl transferase: Discovery by in vitro-driven virtual screening on a desktop computer grid. *J. Med. Chem*. **53(4)**, 1483-1495 (2010).

WARNING
THIS PRODUCT IS FOR RESEARCH ONLY - NOT FOR HUMAN OR VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

SAFETY DATA
This material should be considered hazardous until further information becomes available. Do not ingest, inhale, get in eyes, on skin, or on clothing. Wash thoroughly after handling. Before use, the user must review the complete Safety Data Sheet, which has been sent *via* email to your institution.

WARRANTY AND LIMITATION OF REMEDY
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