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Produktinformation

- Forschungsprodukte & Biochemikalien
- Zellkultur & Verbrauchsmaterial
- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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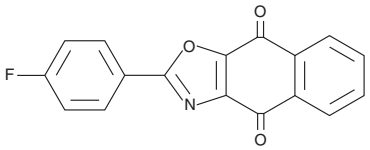
PRODUCT INFORMATION

C527

Item No. 21771

CAS Registry No.: 192718-06-2
Formal Name: 2-(4-fluorophenyl)-naphth[2,3-d]oxazole-4,9-dione
MF: $C_{17}H_8FNO_3$
FW: 293.3
Purity: ≥98%
UV/Vis.: λ_{max}: 277 nm
Supplied as: A crystalline solid
Storage: -20°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

C527 is supplied as a crystalline solid. A stock solution may be made by dissolving the C527 in the solvent of choice. C527 is soluble in organic solvents such as DMSO and dimethyl formamide, which should be purged with an inert gas. The solubility of C527 in these solvents is approximately 0.16 and 0.33 mg/ml, respectively.

Description

C527 is an inhibitor of USP1/UAF complex deubiquitinase activity (IC_{50} = 0.88 µM).[1] It also inhibits USP5, UCL-H3, and USP12/46 but not UCL-H1 activity (IC_{50}s = 1.65, 2.18, 5.97, and >10 µM, respectively). C527 increases ubiquinated Fanconi anemia complementation group D2 (FANCD2-Ub) and FANCI-Ub levels in a concentration-dependent manner. It inhibits homologous recombination repair, cell proliferation, and sensitizes HeLa cells to the DNA crosslinker mitomycin C (Item No. 11435). C527 also inhibits proliferation of PC3 and LNCap prostate cancer cells (IC_{50}s = 0.24 and 0.03 µM, respectively, after 72 hours).[2]

References

1. Mistry, H., Hsieh, G., Buhrlage, S.J., *et al*. Small-molecule inhibitors of USP1 target ID1 degradation in leukemic cells. *Mol. Cancer Ther.* **12(12)**, 2651-2662 (2013).
2. Brandy, Y., Ononiwu, I., Adedeji, D., *et al*. Synthesis and cytotoxic activities of some 2-arylnaphtho[2,3-d] oxazole-4,9-dione derivatives on androgen-dependent (LNCaP) and androgen-independent (PC3) human prostate cancer cell lines. *Invest New Drugs* **30(4)**, 1709-1714 (2012).

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