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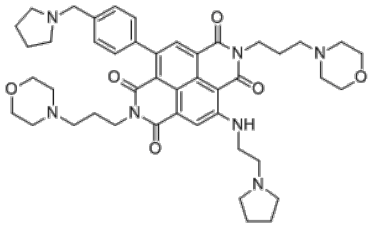
Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	QN-302
Cat. No.	:	PC-21822
CAS No.	:	2546091-70-5
Molecular Formula	:	$C_{45}H_{57}N_7O_6$
Molecular Weight	:	791.99
Target	:	DNA Alkylator/Crosslinker
Solubility	:	10 mM in DMSO



Biological Activity

QN-302 (SOP1812) is a tetrasubstituted naphthalene diimide compound binding to **G-quadruplex** (G4) DNA structures, shows high potency in pancreatic ductal adenocarcinoma (PDAC) cells.
QN-302 shows high affinity to hTERT G4 and HuTel21 G4 with KD values of 4.9 and 28.4 nM, respectively.
QN-302 has high anti-proliferative activity in pancreatic cancer cell lines and anti-tumor activity in several experimental models for the disease.
QN-302 also causes downregulation of the expression of the S100P gene and the S100P protein in cells and in vivo.

References

Ahmed A Ahmed, et al. ***ACS Med Chem Lett.*** 2020 Jul 16;11(8):1634-1644.

Ahmed AA, et al. ***Molecules.*** 2023 Mar 7;28(6):2452.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

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