

Product Data Sheet

Product Name: PAO-Nap

Cat. No.: GC61552

Chemical Properties

Cas. No. 1613402-20-2

SMILES O[As](C1=CC=C(NC(CCCCCN(C(C2=CC=C(N)C3=CC=CC4=C23)=O)C4=O)=O)C=C1)O

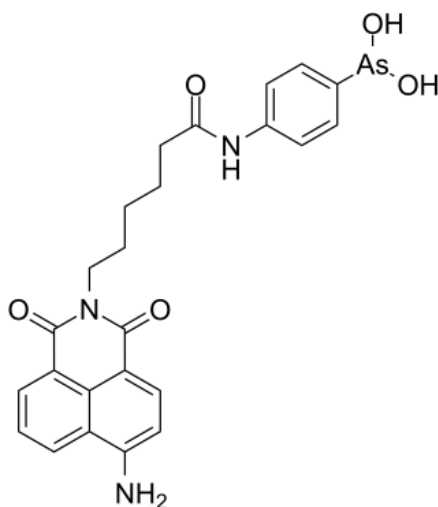
Formula $C_{24}H_{24}AsN_3O_5$ M.Wt 509.39

Solubility Storage Store at -20°C

General For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the tips ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Evaluation sample solution : ship with blue ice All other available size: ship with RT, or Condition blue ice upon request.

Structure



Background

PAO-Nap is the modified PAO attached a naphthalimide fluorophore using aminocaproic acid as a linker. PAO induces oxidative stress-mediated apoptosis in HL-60 cells by selectively targeting thioredoxin reductase[1].

PAO exhibits IC50 values of 6.2 μM, 9.4 μM, 7.7 μM in HL-60, 7721 and Hela cells (48 h)[1].

Caution: Product has not been fully validated for medical applications. For research use only.

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[1]. Yaping Liu, et al. Dithiaarsanes induce oxidative stress-mediated apoptosis in HL-60 cells by selectively targeting thioredoxin reductase. J Med Chem. 2014 Jun 26;57(12):5203-11.

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