
Product Data Sheet

Product Name: D9
Cat. No.: GC50296

Chemical Properties

Cas. No. 1527513-89-8

SMILES [Au].COC1=CC=C(C=C1)C#C.S1C=CC=C1P(C1=CC=CC=C1)C1=CC=CC=C1

Formula C₂₅H₂₀AuOPS M.Wt 596.43

Solubility Soluble in DMSO Storage Store at -20°C

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

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

Structure

Background

Potent thioredoxin reductase (TrxR) inhibitor (EC₅₀ = 2.8 nM, IC₅₀ = 0.03 and 0.1 μM in MCF-7 cells and HT-29 cells, respectively). Highly stable in vivo; exhibits no significant ligand exchange with albumin. Inhibits tumor proliferation in vitro and in vivo by inducing cell death. Selectively kills cancer cells.

Zhang et al (2014) Synthesis and molecular recognition studies on small-molecule inhibitors for thioredoxin reductase. J.Med.Chem. 57 8132 PMID:25249032 | Lin et al (2015) pH-sensitive polymeric nanoparticles with gold(I) compound payloads synergistically induce cancer cell death through modulation of autophagy. Mol.Pharm. 12 2869 PMID:26101892

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

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