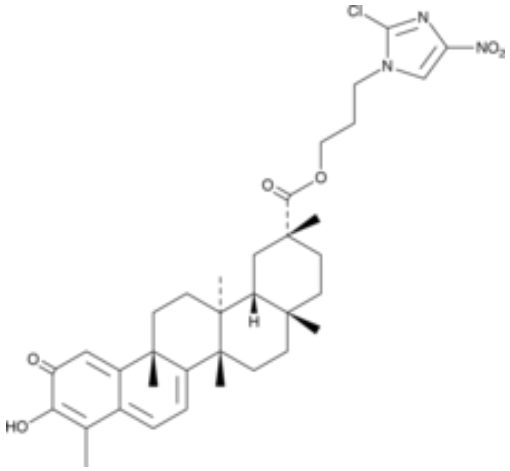
Product Data Sheet

Product Name: CAY10792
Cat. No.: GC52245

Chemical Properties

Cas. No.	2361009-68-7		
SMILES	C[C@@]12[C@]([C@@]3([H])[C@@](CC1)(CC[C@](C)(C3)C(OCCCN4C(Cl)=NC([N+]([O-])=O)=C4)=O)C)(CC[C@@]5(C2=CC=C6C5=CC(C(O)=C6C)=O)C)C		
Formula	C35H44ClN3O6	M.Wt	638.2
Solubility	Chloroform: soluble,DMF: insol,DMSO: insol,Ethanol: insol,PBS (pH 7.2): insol	Storage	-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

CAY10792 is an anticancer agent.[1] It binds to heat shock protein 90 (Hsp90) and cell division cycle 37 (Cdc37) in cell-free assays. CAY10792 inhibits the growth of A549, HCT116, U2OS, and MDA-MB-231 cancer cells (IC_{50}s = 0.54, 0.59, 0.57, and 0.57 µM, respectively) but not A549 cells overexpressing Hsp90, Cdc37, or Hsp90 and Cdc37 (IC_{50}s = >100 µM for all). It induces cell cycle

arrest at the G_0/G_1 phase and apoptosis in A549 lung cancer cells when used at a concentration of 0.8 µM. *In vivo*, CAY10792 (0.5 and 1 mg/kg) reduces tumor weight in an A549 mouse xenograft model.

1.Li, N., Xu, M., Zhang, L., et al.Discovery of novel celastrol-imidazole derivatives with anticancer activity in vitro and in vivoJ. Med. Chem.65(6)4578-4589(2022)