

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

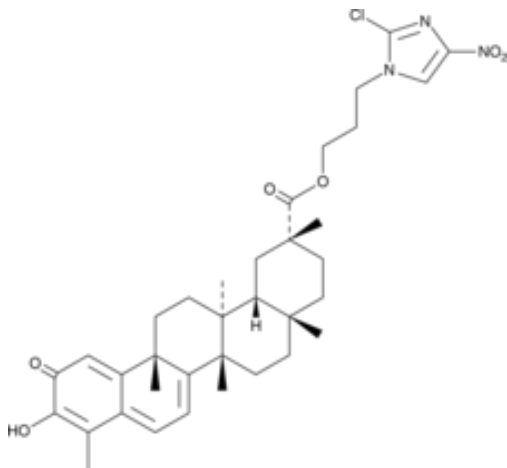
Formula C₃₅H₄₄ClN₃O₆ M.Wt 638.2

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 (IC₅₀s = 0.54, 0.59, 0.57, and 0.57 μM, respectively) but not A549 cells overexpressing Hsp90, Cdc37, or Hsp90 and Cdc37 (IC₅₀s = >100 μM for all). It induces cell cycle

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

arrest at the G₀/G₁ 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)

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA