

Product Data Sheet

Product Name: CAY10567

Cat. No.: GC18322

Chemical Properties

Cas. No. 32387-96-5

Chemical Name 2,3-diphenyl-6-quinoxalinecarboxylic acid

SMILES OC(=O)c1ccc2nc(c3ccccc3)c(nc2c1)c1ccccc1

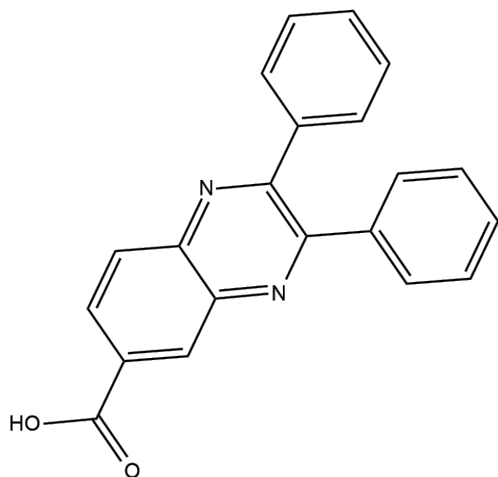
Formula $C_{21}H_{14}N_2O_2$ M.Wt 326.4

Solubility DMF: 20 mg/ml, DMF:PBS (pH 7.2) (1:5): 0.15 mg/ml, DMSO: 10 mg/ml, Ethanol: 0.25 mg/ml
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

Akt1, 2, and 3 are serine/threonine protein kinases in the phosphatidylinositol 3 (PI3)-kinase signalling pathway that play a critical role in the regulation of cell proliferation and survival. Following recruitment of Akt to the plasma membrane, phosphorylation at threonine 308 and serine 473 (Akt1

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

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numbering) by phosphoinositide-dependent kinases (PDK) 1 and 2 results in full activation of the enzyme. CAY10567 is an Akt1 translocation inhibitor. At a concentration of 12.5 μ M, it prevents the translocation of Akt1 by apparently compromising the function of the PH domain. A structurally similar compound inhibits kinase activity in vitro with an EC50 value of 12 μ M by binding to the kinase domain. CAY10567 also inhibits hepatitis C virus (HCV) NS5B RNA-dependent RNA polymerase (RdRp) with an IC50 value of 79 μ M.

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