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 ℃ and shake it in the ultrasonic bath for a while.Stock solution can be stored below -20℃ 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	CAY10567		

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 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 uM, 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 uM 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 uM.

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