Product Data Sheet

Product Name: QL-IX-55
Cat. No.: GC18032

Chemical Properties

Cas. No.	1223002-54-7		
Chemical Name	9-(6-aminopyridin-3-yl)-1-(4-fluoro-3-(trifluoromethyl)phenyl)benzo[h][1,6]naphthyridin-2(1H)-one		
SMILES	O=C1C=CC2=CN=C3C=CC(C4=CN=C(N)C=C4)=CC3=C2N1C5=CC(C(F)(F)F)=C(F)C=C5		
Formula	$C_{24}H_{14}F_4N_4O$	M.Wt	450.39
Solubility	Soluble in DMSO	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	QL-IX-55		

Background

The functional target of QL-IX-55 is the ATP-binding site of TOR2 as evidenced by the discovery of resistant alleles of TOR2 through rational design and unbiased selection strategies. QL-IX-55 is capable of potently inhibiting both TOR complex 1 and 2 (TORC1 and TORC2) as demonstrated by biochem. IP kinase assays (IC50 <50 nM) and cellular assays for inhibition of substrate YPK1 phosphorylation. In contrast to rapamycin, QL-IX-55 is capable of inhibiting TORC2-dependent transcription, which suggests that this compd. will be a powerful probe to dissect the Tor2/TORC2-related signaling pathway in yeast.

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