Product Data Sheet

Product Name: CAY10626
Cat. No.: GC18884

Chemical Properties

Cas. No.	1202884-94-3		
Chemical Name	N-[2-(dimethylamino)ethyl]-N-methyl-4-[[[[4-[4-(4-morpholinyl)-7-(2,2,2-trifluoroethyl)-7H-pyrrolo[2,3-d]pyrimidin-2-yl]phenyl]amino]carbonyl]amino]-benzamide		
SMILES	O=C(NC1=CC=C(C(N(C)CCN(C)C)=O)C=C1)NC2=CC=C(C3=NC(N4CCOCC4)=C(C=CN5CC(F)(F)F)C5=N3)C=C2		
Formula	$C_{31}H_{35}F_3N_8O_3$	M.Wt	624.7
Solubility	DMF: 15 mg/ml,DMSO: 15 mg/ml,DMSO:PBS (pH 7.2) (1:10): 0.1 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	CAY10626		

Background

Phosphatidylinositol 3-kinase (PI3K) catalyzes the phosphorylation of the 3' hydroxyl position of PIs to produce PtdIns-(3,4)-P2 and PtdIns-(3,4,5)-P3, important second messengers that modulate the activity of downstream targets Akt and mTOR. Aberrant PI3K/Akt is associated with many human cancers. CAY10626 is a potent, dual PI3Kα/mTOR inhibitor with IC50 values of 0.9 and 0.6 nM for the two respective kinases. In a tumor cell growth inhibition assay, CAY10626 demonstrates IC50 values of 50 mg/k to MD361 xenograft mice, phosphorylation of the downstream targets of PI3Kα and mTOR (Akt T308, Akt S473, and S6K) was suppressed, and significant tumor regression was observed.

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