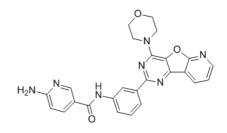


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Data Sheet

Global Supplier of Chemical Probes, Inhibitors & Agonists.

Product Name	:	YM-201636
Cat. No.	:	PC-43409
CAS No.	:	371942-69-7
Molecular Formula	:	C ₂₅ H ₂₁ N ₇ O ₃
Molecular Weight	:	467.4793
Target	:	PIKfyve
Solubility	:	DMSO: ≥ 47 mg/mL
		-



Biological Activity

YM-201636 is a potent, selective **PIKfyve** inhibitor with IC50 of 33 nM, does not inhibit type Ii γ /I α PtdInsP kinases even at 10 uM (p110 α IC50=3.3 uM).

YM-201636 shows insensitivity against yeast orthologue of PIKfyve, Fab1; significantly decreases the production of PtdIns(3,5)P2 by 80% in serum-starved NIH3T3 cells with no effect on serum-stimulated PKB Ser 473 phosphorylation at 0.8 uM.

YM-201636 inhibits basal and insulin-activated 2-deoxyglucose uptake withIC50 of 54 nM.

YM-201636 significantly reduces retroviruses budding from cells; blocks the continuous recycling of the tight junction proteins claudin-1 and claudin-2 in MDCK cells.

References

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Osborne SL, et al. *J Biol Chem.* 2008 Feb 1;283(5):2804-13.

Ikonomov OC, et al. Biochem Biophys Res Commun. 2009 May 8;382(3):566-70.

Kerr MC, et al. **EMBO J.** 2010 Apr 21;29(8):1331-47.

Caution: Product has not been fully validated for medical applications. Lab Use Only!

E-mail: tech@probechem.com