

Product Name: YM201636 Revision Date: 05/10/2024

Product Data Sheet

YM201636

Cat. No.: B2189

CAS No.: 371942-69-7 Formula: C25H21N7O3

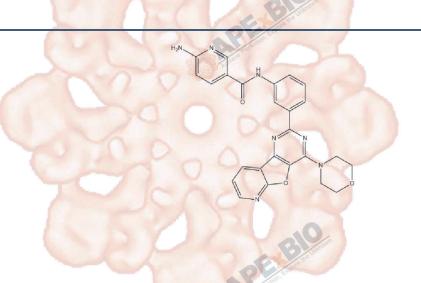
M.Wt: 467.48

Synonyms:

PI3K/Akt/mTOR Signaling Target:

Pathway: **PIKfyve**

Storage: Store at -20°C



Solvent & Solubility

insoluble in H2O; insoluble in EtOH; ≥11.68 mg/mL in DMSO

In Vitro

Preparing Stock Solutions	Solvent Concentration	1mg	5mg	10mg
	1 mM	2.1391 mL	10.6956 mL	21.3913 mL
	5 mM	0.4278 mL	2.1391 mL	4.2783 mL
	10 mM	0.2139 mL	1.0696 mL	2.1391 mL

Please refer to the solubility information to select the appropriate solvent.

Biological Activity

Shortsummary	PIKfyve inhibitor,potent and selective		
IC ₅₀ & Target	33 nM (PIKfyve), 3.3 μM ([p110α]	
	Cell Viability Assay	BE gree return	
In Vitro	Cell Line;	Mouse 3T3L1 adipocytes, NIH3T3 cells	
	Preparation method:	The solubility of this compound in DMSO is >11.7mg/mL. General tips for	
		obtaining a higher concentration: Please warm the tube at 37°C for 10 minutes	
		and/or shake it in the ultrasonic bath for a while. Stock solution can be stored	
		below -20°C for several months.	
	Reacting conditions:	0-4 μM for 30 min or 800 nM for 2h	
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	Applications:	In mouse 3T3L1 adipocytes, YM201636 significantly inhibited both basal and			
		insulin-activated 2DG uptake in a dose-dependent way. YM201636 (160 nM)			
		nearly completely inhibited the net insulin effect with a 50% inhibition at 54 \pm 4			
		nM. YM201636 at 800 nM produced a 45% inhibition of cell surface			
	Thirdun	HA-GLUT4-eGFP accumulation and a 55% inhibition of Akt-Ser473			
	Epole In C.	phosphorylation. In NIH3T3 cells, YM201636 at 800 nM decreased			
Today Political		PtdIns(3,5)P2 production by 80%. YM201636 induced the vesiculation			
		phenotype by affecting PIKfyve and PtdIns(3,5)P2 production.			
	Animal experiment	Animal experiment			
In Vivo	Applications:				

Product Citations

See more customer validations on www.apexbt.com.

References

[1] Jefferies H B J, Cooke F T, Jat P, et al. A selective PIKfyve inhibitor blocks PtdIns (3, 5) P2 production and disrupts endomembrane transport and retroviral budding. EMBO reports, 2008, 9(2): 164-170.

[2]. Ikonomov O C, Sbrissa D, Shisheva A. YM201636, an inhibitor of retroviral budding and PIKfyve-catalyzed PtdIns (3, 5) P2synthesis, halts glucose entry by insulin in adipocytes. Biochemical and biophysical research communications, 2009, 382(3): 566-570.

Caution

FOR RESEARCH PURPOSES ONLY.

NOT FOR HUMAN, VETERINARY DIAGNOSTIC OR THERAPEUTIC USE.

Specific storage and handling information for each product is indicated on the product datasheet. Most APExBIO products are stable under the recommended conditions. Products are sometimes shipped at a temperature that differs from the recommended storage temperature. Shortterm storage of many products are stable in the short-term at temperatures that differ from that required for long-term storage. We ensure that the product is shipped under conditions that will maintain the quality of the reagents. Upon receipt of the product, follow the storage recommendations on the product data sheet.

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