LKT Laboratories, Inc.

YM-201636

Phone: 888-558-5227
651-644-8424
Fax: 888-558-7329
Email: getinfo@lktlabs.com
Web: lktlabs.com

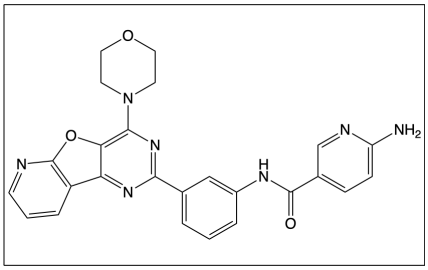
Product Information

Product ID Y4802
CAS No. 371942-69-7
Chemical Name

Synonym PIKfyve Inhibitor

Formula $C_{25}H_{21}N_7O_3$
Formula Wt. 467.49
Melting Point
Purity ≥98%
Solubility

DMSO	35 mg/mL (74.86 mM)
Water	Insoluble
Ethanol	Insoluble



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
Y4802	1 mg	$138.90
Y4802	5 mg	$355.80
Y4802	10 mg	$569.50

Store Temp -20˚C
Ship Temp Ambient

Description YM-201636 is an inhibitor of PIKfyve, decreasing the synthesis of phosphatidylinositol 3,5-disphosphate. YM-210636 decreases muscular contraction-stimulated glucose uptake in vitro and induces autophagy-dependent neuronal death in other cellular models. Additionally, YM-210636 inhibits endomembrane transport and retroviral budding in vitro.

References

Liu Y, Lai YC, Hill EV, et al. Phosphatidylinositol 3-phosphate 5-kinase (PIKfyve) is an AMPK target participating in contraction-stimulated glucose uptake in skeletal muscle. Biochem J. 2013 Oct 15;455(2):195-206. PMID: 23905686.

Martin S, Harper CB, May LM, et al. Inhibition of PIKfyve by YM-201636 dysregulates autophagy and leads to apoptosis-independent neuronal cell death. PLoS One. 2013;8(3):e60152. PMID: 23544129.

Jefferies HB, Cooke FT, Jat P, et al. A selective PIKfyve inhibitor blocks PtdIns(3,5)P(2) production and disrupts endomembrane transport and retroviral budding. EMBO Rep. 2008 Feb;9(2):164-70. PMID: 18188180.