LKT Laboratories, Inc.

WWL70

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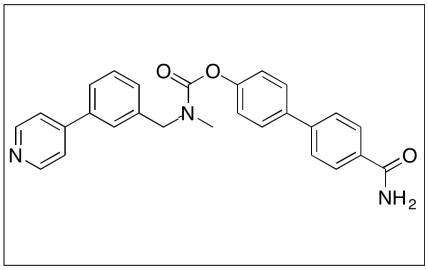
Product Information

Product ID W894440
CAS No. 947669-91-2
Chemical Name [4-(4-carbamoylphenyl)phenyl] N-methyl-N-[(3-pyridin-4-ylphenyl) methyl]carbamate
Synonym

Formula $C_{27}H_{23}N_3O_3$
Formula Wt. 437.50
Melting Point
Purity ≥95%
Solubility 10mM in DMSO



Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
W894440	1 mg	$85.90
W894440	5 mg	$250.50
W894440	25 mg	$965.80

Store Temp -20˚C
Ship Temp Ambient
Description WWL70 is an inhibitor of the serine hydrolase alpha/beta hydrolase domain 6 (ABHD6). ABHD6 is able to hydrolyze 2-arachidonoyl glycerol(2-AG) to arachidonic acid. WWL70 inhibits this process from occurring, resulting in anti-inflammatory and anti-diabetic results. WWL70 was used to determine the role of ABHD6 in diet induced obese mice. Inhibition of ABHD6 resulted in lower weight gain and less incidence of diabetes in mice. In an LPS system, WWL70 was found to reduce the amount of pro-inflammatory prostaglandins.

References

Tanaka M, Moran S, Wen J et al. WWL70 attenuates PGE_2 production derived from 2-arachidonoylglycerol in microglia by ABHD6-independent mechanism. J Neuroinflammation. 2017 Jan 10;14(1):7. PMID: 28086912.

Zhao S, Mugabo Y, Ballentine G et al. alpha/beta-Hydrolase Domain 6 Deletion Induces Adipose Browning and Prevents Obesity and Type 2 Diabetes. Cell Rep. 2016 Mar 29;14(12):2872-88. PMID: 26997277.

Alhouayek M, Masquelier J, Cani PD et al. Implication of the anti-inflammatory bioactive lipid prostaglandin D2-glycerol ester in the control of macrophage activation and inflammation by ABHD6. Proc Natl Acad Sci USA. 2013 Oct 22;110(43):17558-63. PMID: 24101490.