LKT Laboratories, Inc.

Deshydroxy LY-411575

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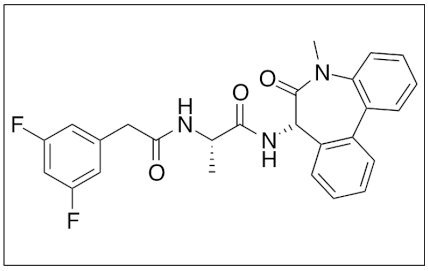
Product Information

Product ID D1773
CAS No. 209984-56-5
Chemical Name

Synonym YO-01027, Dibenzazepine analog, Iminostilbene analog, gamma-Secretase Inhibitor XX, DBZ, GSI-XX

Formula $C_{26}H_{23}F_2N_3O_3$
Formula Wt. 463.48
Melting Point
Purity ≥98%
Solubility DMSO 95 mg/mL (198.13 mM)
Ethanol 13 mg/mL (27.11 mM)
Water Insoluble
Store Temp -20°C
Ship Temp Ambient



Bulk quanitites available upon request

Product ID	Size
D1773	1 mg
D1773	5 mg
D1773	25 mg

Description Deshydroxy LY-411575 is a γ-secretase inhibitor that suppresses Notch signaling and exhibits neuroprotective, anti-diabetic, anti-fibrotic, and cardioprotective activities. In animal models of type 2 diabetes, deshydroxy LY-411575 increases GLP-1-producing intestinal L cells and improves glucose tolerance and the glucose-stimulated insulin response. In animal models of chronic kidney disease, this compound prevents increases in collagen, fibronectin, and α-SMA, suppressing the development of fibrosis. Deshydroxy LY-411575 also inhibits the formation of abdominal aortic aneurysms and suppresses AT-II-induced angiogenesis and Th2-specific immune responses in animal models of aging.

References

Petersen N, Reimann F, van Es JH, et al. Targeting development of incretin-producing cells increases insulin secretion. J Clin Invest. 2015 Jan;125(1):379-85. PMID: 25500886.

Xiao Z, Zhang J, Peng X, et al. The Notch γ-secretase inhibitor ameliorates kidney fibrosis via inhibition of TGF-β/Smad2/3 signaling pathway activation. Int J Biochem Cell Biol. 2014 Oct;55:65-71. PMID: 25150830.

Zheng YH, Li FD, Tian C, et al. Notch γ-secretase inhibitor dibenzazepine attenuates angiotensin II-induced abdominal aortic aneurysm in ApoE knockout mice by multiple mechanisms. PLoS One. 2013 Dec 16;8(12):e83310. PMID: 24358274.

Caution: This product is intended for laboratory and research use only. It is not for human or drug use.