

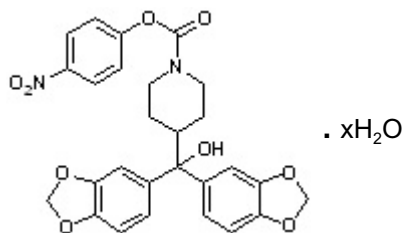
Drug Status Report

Drug: JZL184 hydrate

Drug Name Status: JZL184 is the common name.

Chemical Name: 4-nitrophenyl 4-(dibenzo[*d*] [1,3]dioxol-5-yl(hydroxy)methyl) piperidine-1-carboxylate

Chemical structure:



Molecular Formula: C₂₇H₂₄N₂O₉.xH₂O

Pharmacological class / Application: Monoacylglycerol lipase inhibitor

International status:

US: JZL184 is not listed on any of the schedules to the CSA and is not mentioned on the DEA website.

United Nations: JZL184 is not listed on the Yellow List - List of Narcotic Drugs under International Control. The substance is not listed on the Green List - List of Psychotropic Substances under International Control.

Canadian Status: JZL184 is a selective monoacylglycerol lipase (MAGL) inhibitor that has been shown in *in vivo* studies to block 2-arachidonoylglycerol (2-AG) hydrolysis and cause an increase 2-AG concentrations in the brain¹. The substance is not similar to any of the substances listed in the Schedules to the CDSA.

Recommendation: JZL184 is not included in any of the Schedules to the CDSA and is not considered a controlled substance.

April 7th, 2010.

¹Long, JZ. *et al.* (2009) Selective blockade of 2-arachidonoylglycerol hydrolysis produces cannabinoid behavioral effects. *Nat Chem Biol.* 5:37–44.