



LKT Laboratories, Inc.

ADX-47273

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Product Information

Product ID A1592

CAS No. 851881-60-2

Chemical Name Piperidine, 1-(4-fluorobenzoyl)-3-(3-(4-fluorophenyl)-1,2,4-oxadiazol-5-yl)-, (3S)-

Synonym ADX 47273; ADX47273; UNII-4C4P7L0W63; ChEMBL381055; J-502326

Formula C₂₀H₁₇F₂N₃O₂

Formula Wt. 369.36

Melting Point

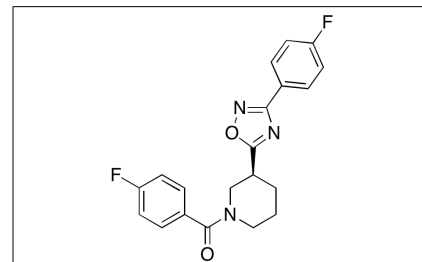
Purity ≥98%

Solubility DMSO 74 mg/mL
Ethanol 30 mg/mL
Water Insoluble

Store Temp -20°C

Ship Temp Ambient

Description ADX 47273 is a positive allosteric modulator of metabotropic glutamate receptor mGluR5 that displays antipsychotic, neuromodulatory, and cognition enhancing activities. In vivo, ADX 47273 increases waking and decreases deep sleep behaviors; it also increases late phase long-term potentiation (LTP) and enhances adaptive learning. In other animal models, ADX 47273 decreases amphetamine- and phencyclidine-induced hyperlocomotion and accumbal dopamine levels.



Pricing and Availability

Bulk quantities available upon request

Product ID	Size	List Price
A1592	1 mg	\$97.70
A1592	5 mg	\$339.50
A1592	25 mg	\$1208.80

References Ahnaou A, Langlois X, Steckler T, et al. Negative versus positive allosteric modulation of metabotropic glutamate receptors (mGluR5): indices for potential pro-cognitive drug properties based on EEG network oscillations and sleep-wake organization in rats. *Psychopharmacology (Berl)*. 2015 Mar;232(6):1107-22. PMID: 25323624.

Xu J, Zhu Y, Kraniotis S, et al. Potentiating mGluR5 function with a positive allosteric modulator enhances adaptive learning. *Learn Mem*. 2013 Jul 18;20(8):438-45. PMID: 23869026.

Kroker KS, Rast G, Rosenbrock H. Differential effect of the mGlu5 receptor positive allosteric modulator ADX-47273 on early and late hippocampal LTP. *Neuropharmacology*. 2011 Sep;61(4):707-14. PMID: 21640734.

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Liu F, Grauer S, Kelley C, et al. ADX47273 [S-(4-fluoro-phenyl)-{3-[3-(4-fluoro-phenyl)-[1,2,4]-oxadiazol-5-yl]-piperidin-1-yl}-methanone]: a novel metabotropic glutamate receptor 5-selective positive allosteric modulator with preclinical antipsychotic-like and procognitive activities. *J Pharmacol Exp Ther*. 2008 Dec;327(3):827-39. PMID: 18753411.

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