Phone: 888-558-5227

651-644-8424

Fax: 888-558-7329 Email: getinfo@lktlabs.com

Web: lktlabs.com

Product Information

Product ID 17478

CAS No. 155270-99-8

Chemical Name (E)-8-(3,4-Dimethoxystyryl)-1,3-diethyl-7-methylxanthine

 $\textbf{Synonym} \quad 8 - [(1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 2 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 3 - (3,4 - Dimethoxyphenyl) ethenyl] - 1,3 - diethyl - 3,7 - dihydro - 7 - methyl - 1 H- (1E) - 3 - (3,4 - Dimethoxyphenyl) ethenyl - 3,7 -$

purine-2,6-dione, KW-6002

Formula $C_{20}H_{24}N_4O_4$ Formula Wt. 384.43 **Melting Point**

Purity ≥99%

Solubility DMSO 6 mg/mL (15.6 mM)

Water Insoluble Ethanol Insoluble

Pricing and Availability

Bulk quanitites available upon request

Product ID	Size	List Price
17478	5 mg	\$91.00
17478	25 mg	\$364.60
17478	100 mg	\$1086.00

Store Temp Ambient Ship Temp Ambient

Description Istradefylline is a competitive inhibitor of adenosine A2A receptors that exhibits tremorlytic activity. Istradefylline is currently under examination as a potential treatment for Parkinson's disease, as it decreases "off" time in subjects with Parkinson's

disease without worsening dyskinesia. Istradefylline increases dopamine levels in normal and 6-OHDA-lesioned animal models, improving cognitive performance. In other animal models, istradefylline decreases GABA release and elicits conditioned place preference (CPP) and increases locomotor activity, indicating a potential role for adenosine receptors in reward and

reinforcement.

References Kadowaki Horita T, Kobayashi M, Mori A, et al. Effects of the adenosine A2A antagonist istradefylline on cognitive performance in rats with a 6-OHDA lesion in prefrontal cortex. Psychopharmacology (Berl). 2013 Dec;230(3):345-52. PMID: 23748382.

> Saki M, Yamada K, Koshimura E, et al. In vitro pharmacological profile of the A2A receptor antagonist istradefylline. Naunyn Schmiedebergs Arch Pharmacol. 2013 Nov;386(11):963-72. PMID: 23812646.

Mizuno Y, Hasegawa K, Kondo T, et al. Clinical efficacy of istradefylline (KW-6002) in Parkinson's disease: a randomized, controlled study. Mov Disord. 2010 Jul 30;25(10):1437-43. PMID: 20629136.

Salamone JD, Betz AJ, Ishiwari K, et al. Tremorolytic effects of adenosine A2A antagonists: implications for parkinsonism. Front Biosci. 2008 May 1;13:3594-605. PMID: 18508458.

Harper LK, Beckett SR, Marsden CA, et al. Effects of the A 2A adenosine receptor antagonist KW6002 in the nucleus accumbens in vitro and in vivo. Pharmacol Biochem Behav. 2006 Jan;83(1):114-21. PMID: 16451807.

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