

Istradefylline

ALTERNATE NAMES:	KW-6002; 8-[(E)-2-(3,4-dimethoxyphenyl)ethenyl]-1,3-diethyl-7-methylpurine-2,6-dione; (E)-8-(3,4- Dimethoxystyryl)-1,3-diethyl-7-methyl-1H-purine-2,6(3H,7H)-dione; (E)-8-(3,4-Dimethoxystyryl)-1,3- diethyl-7-methylxanthine; 8-[2-(3,4-Dimethoxy-phenyl)-vinyl]-1,3-diethyl-7-methyl-3,7-dihydro-purine-2,6- dione; 8-[(1E)-2-(3,4-dimethoxyphenyl)ethenyl]-1,3-diethyl-3,7-dihydro-7-methyl-1H-purine-2,6-dione
CATALOG #:	B3013-5 5 mg B3013-25 25 mg
STRUCTURE:	
MOLECULAR FORMULA:	$C_{20}H_{24}N_4O_4$
MOLECULAR WEIGHT:	384.4
CAS NUMBER:	155270-99-8
APPEARANCE:	White to off-white solid powder
PURITY:	>95%
SOLUBILITY:	~8 mg/ml in DMSO
DESCRIPTION:	Istradefylline is an adenosine receptor 2A (A2A) antagonist with a K _i value of 2.2 nM in a radioligand binding assay. Oral administration of Istradefylline reverses motor disability without inducing dyskinesias or hyperactivity in an MPTP-induced marmoset model of Parkinson's disease. It also decreases bradykinesia induced by L-DOPA and improves attentional and working memory deficits in an MPTP-induced macaque model of Parkinson's disease.
STORAGE TEMPERATURE:	-20°C. Store in the dark. Product is light sensitive. Protect from air. Store under desiccating conditions.
HANDLING:	Do not take internally. Wear gloves and mask when handling the product! Avoid contact by all modes of exposure.
REFERENCES:	 Kanda, T., Jackson, M.J., Smith, L.A., et al. Adenosine A2A antagonist: A novel antiparkinsonian agent that does not provoke dyskinesia in parkinsonian monkeys. Ann Neurol. 43(4), 507-513 (1998). Shimada, J., Nobuaki, K., Nonaka, H., et al. Adenosine A2A antagonists with potent anti-cataleptic activity. Bioorg. Med. Chem. Lett. 7(18), 2349-2352 (1997). Ko, W.K.D., Camus, S.M., Li, Q., et al. An evaluation of istradefylline treatment on Parkinsonian motor and cognitive deficits in 1-methyl-4-phenyl-1,2,3,6-tetrahydropyridine (MPTP)-treated macaque models. Neuropharmacology 100(Pt. A), 48-58 (2016).
RELATED PRODUCTS:	
AZD-4635 (Cat. No. B2012) SCH-58261 (Cat. No. B1638) CPI-444 (Cat. No. B1970)	2)

CPI-444 (Cat. No. B1970) Namodenoson (Cat. No. B2506) NECA (Cat. No. B2262)

DISCLAIMER:

FOR RESEARCH USE ONLY! Not to be used on humans.