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## DATASHEET

Istradefylline

### Product overview

<b>Name</b>	Istradefylline
<b>Cat No</b>	HB2134
<b>Alternative names</b>	KW-6002, ISD
<b>Biological action</b>	Antagonist
<b>Purity</b>	>98%
<b>Description</b>	Potent and selective A <sub>2A</sub> receptor antagonist

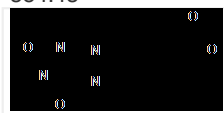
### Biological Data

<b>Biological description</b>	Potent and selective A <sub>2A</sub> receptor antagonist (K <sub>i</sub> values are 2.2 and 150 nM at A <sub>2A</sub> and A <sub>1</sub> receptors respectively). Shows antiparkinsonian and anticataleptic effects. Also shown to reduce memory deficits in aging mice with amyloid pathology.
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### Solubility & Handling

<b>Storage instructions</b>	+4 °C
<b>Solubility overview</b>	Soluble in DMSO (20 mM)
<b>Important</b>	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use

### Chemical Data

<b>Chemical name</b>	(E)-8-(3,4-Dimethoxystyryl)-1,3-diethyl-7-methyl-1H-purine-2,6(3H,7H)-dione
<b>Molecular Weight</b>	384.43
<b>Chemical structure</b>	
<b>Molecular Formula</b>	C <sub>20</sub> H <sub>24</sub> N <sub>4</sub> O <sub>4</sub>
<b>CAS Number</b>	155270-99-8
<b>PubChem identifier</b>	5311037
<b>SMILES</b>	CCN1C2=C(C(=O)N(C1=O)CC)N(C(=N2)/C=C/C3=CC(=C(C=C3)OC)OC)C
<b>InChi</b>	InChI=1S/C20H24N4O4/c1-6-23-18-17(19(25)24(7-2)20(23)26)22(3)16(21-18)11-9-13-8-10-14(27-4)15(12-13)28-5/h8-12H,6-7H2,1-5H3/b11-9+
<b>InChiKey</b>	IQVRBWUUXZMOPW-PKQBNSA-N
<b>MDL number</b>	MFCD00928421

### References

#### Actions of adenosine A<sub>2A</sub> receptor antagonist KW-6002 on drug-induced catalepsy and hypokinesia caused by reserpine or MPTP

Shiozaki et al (1999) Psychopharmacology (Berl). 147(1)

PubMedID [10591873](#)

**Treatment with A2A receptor antagonist KW6002 and caffeine intake regulate microglia reactivity and protect retina against transient ischemic damage**

Boia et al (2017) Cell Death Dis. 8(10)

**PubMedID** 28981089

**Adenosine A2A antagonists with potent anti-cataleptic activity.**

Shimada et al (1997) Bioorg.Med.Chem.Lett. 7

**Istradefylline reduces memory deficits in aging mice with amyloid pathology**

Orr et al (2018) Neurobiol Dis. 110

**PubMedID** 29100987

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