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DATASHEET

Istradefylline

Product overview

Name	Istradefylline
Cat No	HB2134
Alternative names	KW-6002, ISD
Biological action	Antagonist
Purity	>98%
Description	Potent and selective A _{2A} receptor antagonist

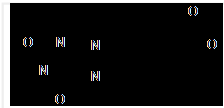
Biological Data

Biological description	Potent and selective A _{2A} receptor antagonist (K _i values are 2.2 and 150 nM at A _{2A} and A ₁ 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

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

Chemical Data

Chemical name	(E)-8-(3,4-Dimethoxystyryl)-1,3-diethyl-7-methyl-1H-purine-2,6(3H,7H)-dione
Molecular Weight	384.43
Chemical structure	
Molecular Formula	C ₂₀ H ₂₄ N ₄ O ₄
CAS Number	155270-99-8
PubChem identifier	5311037
SMILES	CCN1C2=C(C(=O)N(C1=O)CC)N(C(=N2)/C=C/C3=CC(=C(C=C3)OC)OC)C
InChi	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+
InChiKey	IQVRBWUUXZMOPW-PKNCBQFBNSA-N
MDL number	MFCD00928421

References

Actions of adenosine A_{2A} 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
