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DATASHEET

ICI 63197

Product overview

Name	ICI 63197
Cat No	HB0332
Biological action	Inhibitor
Purity	>98%
Description	Potent, selective cAMP PDE inhibitor

Images



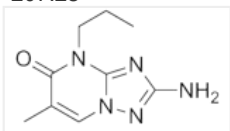
Biological Data

Biological description	Potent and selective cAMP phosphodiesterase (PDE) inhibitor ($IC_{50} = 35$ nM). Shows higher affinity for PDE4 ($K_i = 312.9$ nM). Displays antihyperthermic and antidepressant properties.
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM), and in ethanol (100 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	2-Amino-6-methyl-4-propyl-[1,2,4]triazolo[1,5-a]pyrimidin-5(4H)-one
Molecular Weight	207.23
Chemical structure	

Molecular Formula	$C_9H_{13}N_5O$
CAS Number	27277-00-5
PubChem identifier	62824
SMILES	<chem>CCCN1C(=O)C(=CN2C1=NC(=N2)N)C</chem>

InChi
InChiKey
MDL number

InChI=1S/C9H13N5O/c1-3-4-13-7(15)6(2)5-14-9(13)11-8(10)12-14/h5H,3-4H2,1-2H3,(H2,10,12)
UQDVRVNMJIJAGRK-UHFFFAOYSA-N
MFCD06407961

References

Potential antidepressant activity of rolipram and other selective cyclic adenosine 3',5'-monophosphate phosphodiesterase inhibitors.

Wachtel H (1983) *Neuropharmacology* 22(3)

PubMedID [6302550](#)

Autoradiographic mapping of a selective cyclic adenosine monophosphate phosphodiesterase in rat brain with the antidepressant [3H]rolipram.

Kaulen P *et al* (1989) *Brain Res* 503(2)

PubMedID [2557965](#)

Inhibitor binding to type 4 phosphodiesterase (PDE4) assessed using [3H]piclamilast and [3H]rolipram.

Zhao Y *et al* (2003) *J Pharmacol Exp Ther* 305(2)

PubMedID [12704225](#)
