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DATASHEET

AR-A 014418

Product overview

Name	AR-A 014418
Cat No	HB1258
Biological action	Inhibitor
Purity	>99%
Description	Potent, selective GSK3 inhibitor

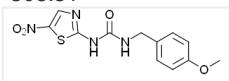
Biological Data

Biological description	Potent and selective GSK3 inhibitor ($IC_{50} = 104 \text{ nM}$) which acts competitively. Exhibits little activity for cdk2 and cdk5 (IC_{50} values are $>100 \text{ }\mu\text{M}$). Also inhibits tau phosphorylation ($IC_{50} = 2.7 \text{ }\mu\text{M}$).
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Solubility & Handling

Storage instructions	+4 °C
Solubility overview	Soluble in DMSO (100mM) or ethanol (5mM)
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	N-[(4-Methoxyphenyl)methyl]-N'-(5-nitro-2-thiazolyl)urea
Molecular Weight	308.31
Chemical structure	
Molecular Formula	$C_{12}H_{12}N_4O_4S$
CAS Number	487021-52-3
PubChem identifier	448014
SMILES	<chem>O=C(NCC2=CC=C(OC)C=C2)NC1=NC=C([N+])([O-])=O)S1</chem>
InChiKey	YAEMHJKFIIILI-UHFFFAOYSA-N

References

Structural insights and biological effects of glycogen synthase kinase 3-specific inhibitor AR-A014418.

Bhat R *et al* (2003) J Biol Chem 278(46)

PubMedID [12928438](#)

AR-A 014418 Used against GSK3beta Downregulates Expression of hnRNPA1 and SF2/ASF Splicing Factors.

Yadav AK *et al* (2014) J Oncol 2014

PubMedID [24550987](#)

