



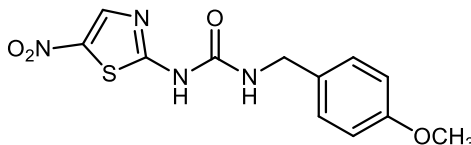
Catalog # 10-1195

AR-A014418

CAS# 487021-52-3

N-[(4-Methoxyphenyl)methyl]-N'-(5-nitro-2-thiazolyl)urea

Lot # X104089



Selective glycogen synthase kinase 3 (GSK-3) inhibitor, $IC_{50} = 104$ nM. Inhibits β -amyloid-mediated neurodegeneration in hippocampal slices. Anti-inflammatory activity. Cell permeable. Active in rodent models.

- 1) Bhat *et al.* (2003), *Structural insights and biological effects of glycogen synthase kinase 3-specific inhibitor AR-A014418*; J.Biol.Chem., **278** 45937
- 2) Ramirez *et al.* (2010), *Inhibition of glycogen synthase kinase 3beta (GSK3beta) decreases inflammatory responses in brain endothelial cells*; Am.J.Pathol., **176** 881

PHYSICAL DATA

Molecular Weight:	308.32
Molecular Formula:	C ₁₂ H ₁₂ N ₄ O ₄ S
Purity:	98% by TLC
	NMR: (Conforms)
Solubility:	DMSO (up to 30 mg/ml)
Physical Description:	Off-white solid
Storage and Stability:	Store as supplied at -20°C for up to 2 years from the date of purchase. Solutions in DMSO may be stored at -20°C for up to 2 months.

Materials provided by Focus Biomolecules are for laboratory research use only and are not intended for human or veterinary applications.

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