

Certificate of Analysis

Product Name: TCS 2002

Catalog No.: 3869

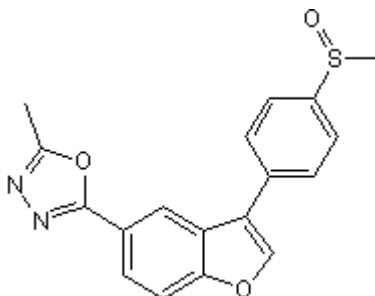
Batch No.: 1

CAS Number: 1005201-24-0

IUPAC Name: 2-Methyl-5-[3-[4-(methylsulfinyl)phenyl]-5-benzofuranyl]-1,3,4-oxadiazole

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₈H₁₄N₂O₃S
Batch Molecular Weight: 338.38
Physical Appearance: White solid
Solubility: DMSO to 100 mM
 ethanol to 25 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Ethyl acetate:Methanol [9:1])
HPLC: Shows 99.8% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	63.89	4.17	8.27
Found	63.87	4.23	8.36

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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Description:

Potent inhibitor of GSK-3 β (IC₅₀ = 35 nM). Oral administration inhibits cold water stress-induced tau hyperphosphorylation in the mouse brain.

Physical and Chemical Properties:

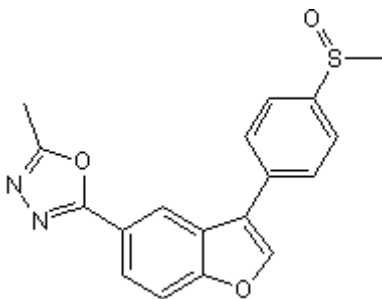
Batch Molecular Formula: C₁₈H₁₄N₂O₃S

Batch Molecular Weight: 338.38

Physical Appearance: White solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM

ethanol to 25 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. Our standard recommendations are:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Saitoh *et al* (2009) 2-[3-[4-(alkylsulfinyl)phenyl]-1-benzofuran-5-yl]-5-methyl-1,3,4-oxadiazole derivatives as novel inhibitors of glycogen synthase kinase-3 β with good brain permeability. *J.Med.Chem.* **52** 6270. PMID: 19775160.

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