

Product Name: N106

Catalog No.: 5681

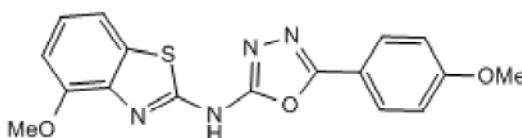
Batch No.: 1

CAS Number: 862974-25-2

IUPAC Name: 4-Methoxy-*N*-[5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl]-2-benzothiazolamine

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₇H₁₄N₄O₃S
Batch Molecular Weight: 354.38
Physical Appearance: Yellow solid
Solubility: DMSO to 20 mM with gentle warming
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.45 (1:1 Pet. Ether/AcOEt)
HPLC: Shows 99.2% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	57.62	3.98	15.81
Found	57.83	4.08	15.82

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

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Product Name: N106

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CAS Number: 862974-25-2

IUPAC Name: 4-Methoxy-N-[5-(4-methoxyphenyl)-1,3,4-oxadiazol-2-yl]-2-benzothiazolamine

Description:

Activator of SUMO-activating enzyme, E1 ligase. Increases SERCA2a SUMOylation and activity, and enhances contractility in rat cardiomyocytes in vitro. Improves ventricular function in a mouse model of heart disease.

Physical and Chemical Properties:

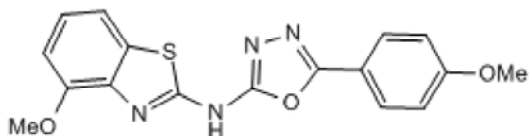
Batch Molecular Formula: C₁₇H₁₄N₄O₃S

Batch Molecular Weight: 354.38

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



References:

Kho et al (2015) Small-molecule activation of SERCA2a SUMOylation for the treatment of heart failure. *Nat.Commun.* **6** 7229. PMID: 26068603.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 20 mM with gentle warming

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.

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