

Product Name: SecinH3

Catalog No.: 2849

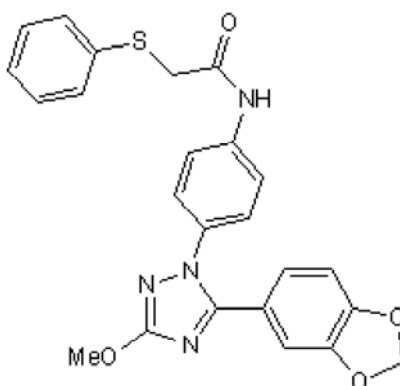
Batch No.: 3

CAS Number: 853625-60-2

IUPAC Name: *N*-[4-[5-(1,3-Benzodioxol-5-yl)-3-methoxy-1*H*-1,2,4-triazol-1-yl]phenyl]-2-(phenylthio)acetamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₂₀N₄O₄S
Batch Molecular Weight: 460.5
Physical Appearance: White solid
Solubility: DMSO to 100 mM
Storage: Store at +4°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 98% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	62.6	4.38	12.17
Found	62.69	4.37	12.17

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

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Description:

Sec7-specific GEF inhibitor that displays selectivity for small GEFs of the cytohesin family (IC₅₀ values are 2.4, 5.4, 5.4, 5.6, 5.6, 65 and > 100 μM for hCyh2, hCyh1, mCyh3, hCyh3, drosophila steppke, yGea2-S7 and hEFA6-S7 respectively). Inhibits insulin signaling via inhibition of insulin receptor substrate protein (IRS) phosphorylation.

Physical and Chemical Properties:

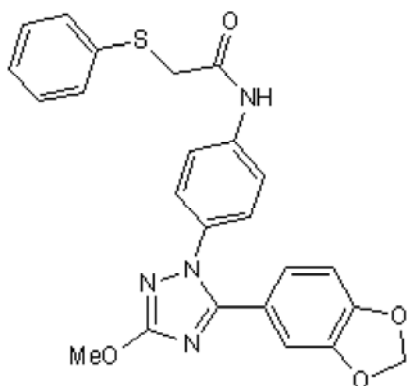
Batch Molecular Formula: C₂₄H₂₀N₄O₄S

Batch Molecular Weight: 460.5

Physical Appearance: White solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 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:

Fuss et al (2006) The cytohesin Steppke is essential for Ins signalling in *Drosophila*. Nature **444** 945. PMID: 17167488.

Hafner et al (2006) Inhibition of cytohesins by secinH3 leads to hepatic Ins resistance. Nature **444** 941. PMID: 17167487.

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