

**Product Name:** SecinH3

**Catalog No.:** 2849

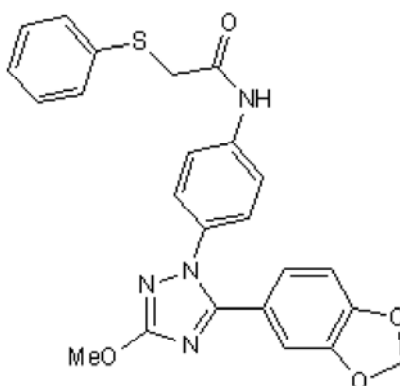
**Batch No.:** 4

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:** C<sub>24</sub>H<sub>20</sub>N<sub>4</sub>O<sub>4</sub>S.  
**Batch Molecular Weight:** 460.5  
**Physical Appearance:** Off-white solid  
**Solubility:** DMSO to 100 mM  
**Storage:** Store at +4°C  
**Batch Molecular Structure:**



**2. ANALYTICAL DATA**

**HPLC:** Shows 99.4% purity  
**<sup>1</sup>H NMR:** Consistent with structure  
**Mass Spectrum:** Consistent with structure

**Microanalysis:**

	Carbon	Hydrogen	Nitrogen
Theoretical	62.6	4.38	12.17
Found	62.54	4.31	12.22

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**Description:**

SecinH3 is a Sec7-specific GEF inhibitor that displays selectivity for small GEFs of the cytohesin family (IC<sub>50</sub> 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:**

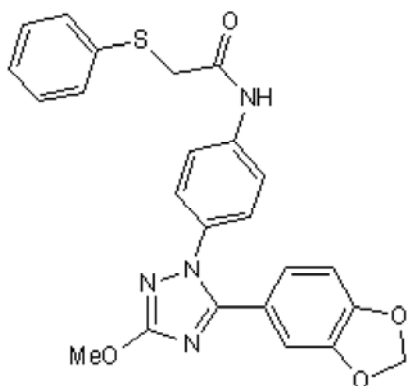
Batch Molecular Formula: C<sub>24</sub>H<sub>20</sub>N<sub>4</sub>O<sub>4</sub>S.

Batch Molecular Weight: 460.5

Physical Appearance: Off-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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