Print Date: Dec 4th 2018

Certificate of Analysis

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Product Name: **NGI 1** **Catalog No.: 6652** **Batch No.: 1**

CAS Number: 790702-57-7

IUPAC Name: 5-[(Dimethylamino)sulfonyl]-*N*-(5-methyl-2-thiazolyl)-2-(1-pyrrolidinyl)benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{17}H_{22}N_4O_3S_2$

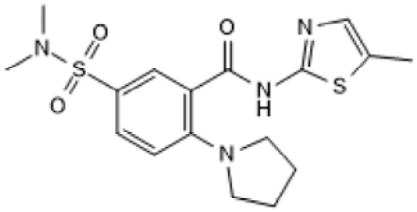
Batch Molecular Weight: 394.51

Physical Appearance: White solid

Solubility: DMSO to 100 mM

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.48 (Dichloromethane:Methanol [95:5])

HPLC: Shows 99.8% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	51.76	5.62	14.2
Found	51.71	5.62	14.06

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Description:

Oligosaccharyltransferase (OST) inhibitor; anti-flaviviral. Inhibits dengue, Zika, West Nile, and yellow fever viruses by blocking viral RNA replication (EC_{50} values are 0.85 and 2.2 µM for DENV and ZIKV inhibition, respectively). Selectively arrests proliferation of non-small-cell lung cancer cells that are dependent on EGFR or FGFR for survival.

Physical and Chemical Properties:

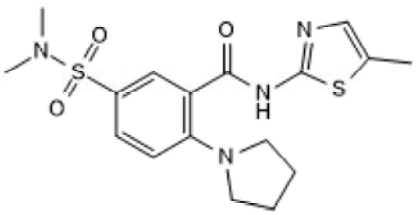
Batch Molecular Formula: $C_{17}H_{22}N_4O_3S_2$

Batch Molecular Weight: 394.51

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:

Lopez-Sambrooks *et al* (2018) Oligosaccharyltransferase inhibition overcomes therapeutic resistance to EGFR tyrosine kinase inhibitors. Cancer Res. ***78*** 5094. PMID: 30026325.

Puschnik *et al* (2017) A small molecule oligosaccharyltransferase inhibitor with pan-flaviviral activity. Cell Rep. ***21*** 3032. PMID: 29241533.

Lopez-Sambrooks *et al* (2016) Oligosaccharyltransferase inhibition induces senescence in RTK-driven tumor cells. Nat.Chem.Biol. ***12*** 1023. PMID: 27694802.

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