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Print Date: Jan 14th 2016

Certificate of Analysis

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Product Name: **GSK 269962** **Catalog No.: 4009** **Batch No.: 1**

CAS Number: 850664-21-0

IUPAC Name: *N*-[3-[[2-(4-Amino-1,2,5-oxadiazol-3-yl)-1-ethyl-1*H*-imidazo[4,5-*c*]pyridin-6-yl]oxy]phenyl]-4-[2-(4-morpholinyl)ethoxy] benzamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{29}H_{30}N_8O_5$

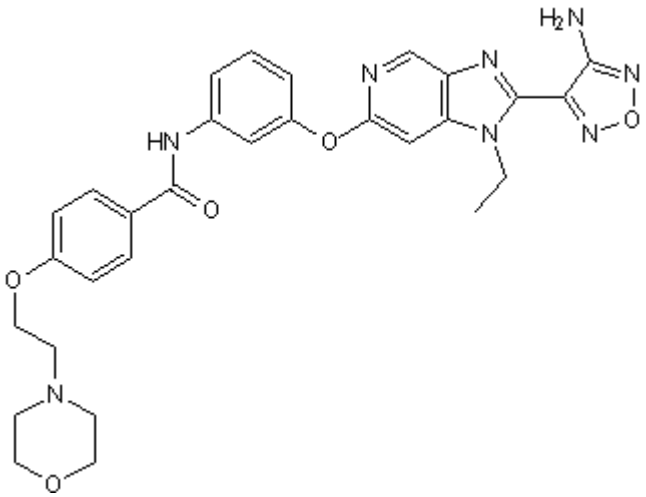
Batch Molecular Weight: 570.6

Physical Appearance: Off-white solid

Solubility: DMSO to 100 mM
ethanol to 10 mM with gentle warming

Storage: Store at +4°C

Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.47 (Dichloromethane:Methanol:Ammonia soln. [90:9:1])

HPLC: Shows 99.3% purity

^{1}H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	61.04	5.3	19.64
Found	60.94	5.33	19.56

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Product Information

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Description:

Potent Rho kinase (ROCK) inhibitor (IC_{50} values are 1.6 and 4 nM for recombinant human ROCK1 and ROCK2 respectively). Displays greater than 30-fold selectivity for ROCK against a panel of serine/threonine kinases. Induces vasorelaxation in preconstricted rat aorta (IC_{50} = 35 nM); lowers blood pressure in a rat model of hypertension.

Physical and Chemical Properties:

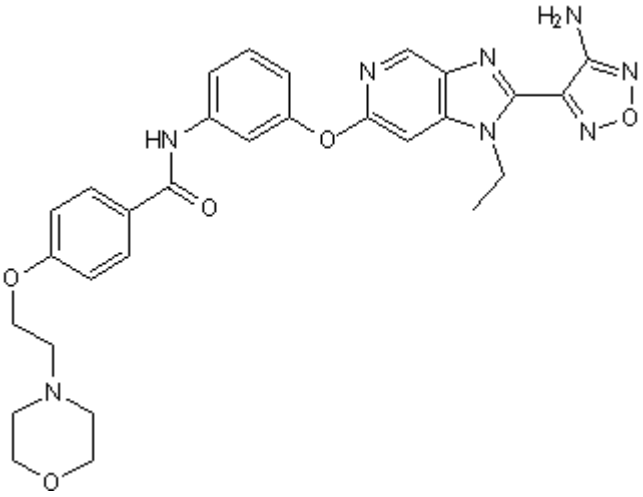
Batch Molecular Formula: $C_{29}H_{30}N_8O_5$

Batch Molecular Weight: 570.6

Physical Appearance: Off-white solid

Minimum Purity: >99%

Batch Molecular Structure:



Storage: Store at +4°C

Solubility & Usage Info:

DMSO to 100 mM
ethanol to 10 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.

References:

Doe *et al* (2007) Novel Rho kinase inhibitors with anti-inflammatory and vasodilatory activities. J.Pharmacol.Exp.Ther. ***320*** 89. PMID: 17018693.

Stavenger *et al* (2007) Discovery of aminofurazan-azabenzimidazoles as inhibitors of Rho-kinase with high kinase selectivity and antihypertensive activity. J.Med.Chem. ***50*** 2. PMID: 17201404.

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