

Certificate of Analysis

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Product Name: SU 6656

Catalog No.: 6475

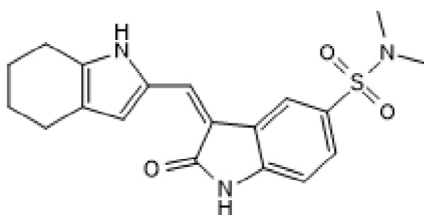
Batch No.: 1

CAS Number: 330161-87-0

IUPAC Name: 2,3-Dihydro-*N,N*-dimethyl-2-oxo-3-[(4,5,6,7-tetrahydro-1*H*-indol-2-yl)methylene]-1*H*-indole-5-sulfonamide

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₉H₂₁N₃O₃S
Batch Molecular Weight: 371.45
Physical Appearance: Orange solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 96.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	61.44	5.7	11.31
Found	61.77	5.73	10.98

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

bio-techne.com

info@bio-techne.com
techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com
Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors
Tel: +1 612 379 2956

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Description:

SU 6656 is a potent ATP-competitive Src family kinase inhibitor (IC₅₀ values are 0.02, 0.13, 0.17, 0.28 and 6.88 nM for Yes, Lyn, Fyn, Src and Lck, respectively). Exhibits > 6.5 fold selectivity for Src family over other kinases. Also AMPK inhibitor (IC₅₀ = 0.22 μM for the α2 kinase domain). Cell permeable.

Physical and Chemical Properties:

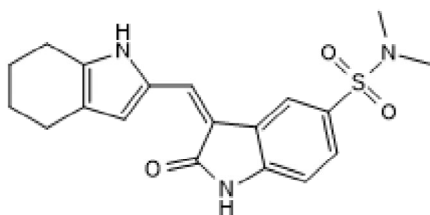
Batch Molecular Formula: C₁₉H₂₁N₃O₃S

Batch Molecular Weight: 371.45

Physical Appearance: Orange solid

Minimum Purity: ≥95%

Batch Molecular Structure:



Storage: Store at -20°C. This product is packaged under an inert atmosphere.

CAUTION - This product is light sensitive and we recommend that the solid material and any solutions obtained are protected from exposure to light.

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. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

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:

Ross et al (2017) Mechanisms of paradoxical activation of AMPK by the kinase inhibitors SU6656 and sora. *Cell.Chem.Biol.* **24** 813. PMID: 28625738.

Blake et al (2000) SU6656, a selective src family kinase inhibitor, used to probe growth factor signaling. *Mol.Cell Biol.* **20** 9018. PMID: 11074000.

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