

Certificate of Analysis

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Product Name: TRC 051384

Catalog No.: 4734

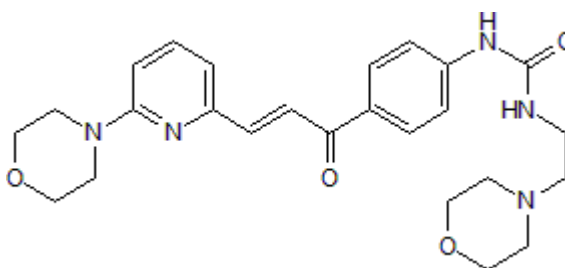
Batch No.: 1

CAS Number: 867164-40-7

IUPAC Name: *N*-[2-(4-Morpholinyl)ethyl]-*N*'-[4-[3-[6-(4-morpholinyl)-2-pyridinyl]-1-oxo-2-propen-1-yl]phenyl]urea

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₅H₃₁N₅O₄
Batch Molecular Weight: 465.54
Physical Appearance: Yellow solid
Solubility: DMSO to 100 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

TLC: R_f = 0.2 (Dichloromethane:Methanol [95:5])
HPLC: Shows 98.0% purity
¹H NMR: Consistent with structure
Mass Spectrum: Consistent with structure
Microanalysis:

	Carbon Hydrogen Nitrogen		
Theoretical	64.5	6.71	15.04
Found	64.57	6.71	15

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

Product Information

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Description:

Inducer of heat shock protein Hsp70; reduces stroke-associated neuronal injury and increases survival in a rat model of transient ischemic stroke. Activates heat shock factor-1 and results in elevated chaperone and anti-inflammatory activity. Enhances Hsp72 expression in neurons and glial cells.

Physical and Chemical Properties:

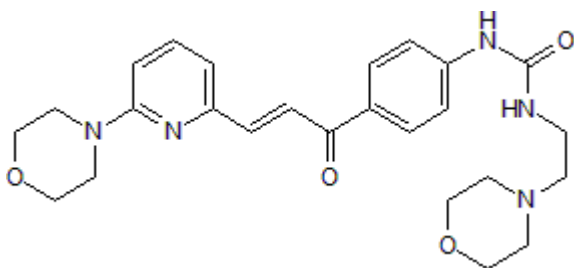
Batch Molecular Formula: C₂₅H₃₁N₅O₄

Batch Molecular Weight: 465.54

Physical Appearance: Yellow solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

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. 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:

Mohanan et al (2011) Delayed intervention in experimental stroke with TRC051384--a small molecule HSP70 inducer. *Neuropharmacology*. **60** 991. PMID: 21167846.

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