

Certificate of Analysis

Product Name: BRD 7389

Catalog No.: 4037

Batch No.: 1

CAS Number: 376382-11-5

IUPAC Name: 1-[(2-Phenylethyl)amino]-3*H*-naphtho[1,2,3-*de*]quinoline-2,7-dione

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₄H₁₈N₂O₂·0.33H₂O

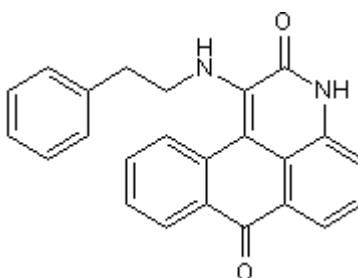
Batch Molecular Weight: 372.4151

Physical Appearance: Brown solid

Solubility: DMSO to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 97.8% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

Microanalysis:

	Carbon	Hydrogen	Nitrogen
Theoretical	77.42	5.05	7.52
Found	77.33	4.91	7.64

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Description:

Ribosomal S6 kinase (RSK) inhibitor (IC₅₀ values are 1.2, 1.5 and 2.4 μM for RSK3, RSK1 and RSK2 respectively). Upregulates insulin expression in terminally differentiated pancreatic α-cells.

Physical and Chemical Properties:

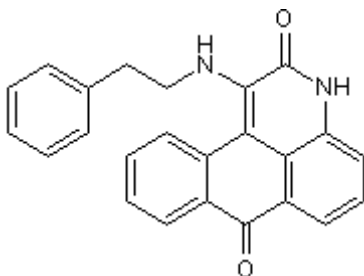
Batch Molecular Formula: C₂₄H₁₈N₂O₂·0.33H₂O

Batch Molecular Weight: 372.4151

Physical Appearance: Brown solid

Minimum Purity: >97%

Batch Molecular Structure:



Storage: Store at -20°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:

Fomina-Yadlin et al (2010) Small molecule inducers of insulin expression in pancreatic alpha cells. *Proc.Natl.Acad.Sci. USA* **107** 15099.

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